

NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

THESIS

FLOW VISUALIZATION AND DETAILED LOAD MEASUREMENTS OVER A MANEUVERING UCAV 1303

by

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March 2011

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington DC 20503.				
		3. RE	PORT TYPE AND DATES COVERED Master's Thesis	
4. TITLE AND SUBTITLE Flow Visualization and Detailed Load Measurements 1303 6. AUTHOR(S) Philip D. Sosebee	s Over a Maneuvering UC.	AV	5. FUNDING NUMBERS	
7. PERFORMING ORGANIZATION NAME(S) Naval Postgraduate School Monterey, CA 93943-5000	AND ADDRESS(ES)		8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING /MONITORING AGENCY NA N/A	ME(S) AND ADDRESS	(ES)	10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES The views exproor position of the Department of Defense or the U.S.				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited 12b. DISTRIBUTION CODE				
13. ABSTRACT (maximum 200 words)				
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NSN 7540-01-280-5500

17. SECURITY

REPORT

Flight, Unsteady Flight

CLASSIFICATION OF

Unclassified

Standard Form 298 (Rev. 2-89) Prescribed by ANSI Std. 239-18

ABSTRACT

15. NUMBER OF

261 **16. PRICE CODE**

20. LIMITATION OF

UU

PAGES

19. SECURITY CLASSIFICATION OF ABSTRACT

Unclassified

14. SUBJECT TERMS Unmanned Combat Air Vehicle, UCAV, Delta Wing, Aerodynamics, Steady

CLASSIFICATION OF THIS

Unclassified

18. SECURITY

PAGE

Approved for public release; distribution is unlimited

FLOW VISUALIZATION AND DETAILED LOAD MEASUREMENTS OVER A MANEUVERING UCAV 1303

Philip D. Sosebee Lieutenant, United States Navy B.S., Old Dominion University, 2004

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

from the

NAVAL POSTGRADUATE SCHOOL March 2011

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LIST OF ACRONYMS AND ABBREVIATIONS

AoA = Angle of attack (degrees)

c = Mean Aerodynamic Chord (in)

C_M = Pitching Moment Coefficient

 C_N = Normal Force Coefficient

 C_{RM} = Rolling Moment Coefficient

 C_S = Side Force Coefficient

C_{YM} = Yawing Moment Coefficient

LEV = Leading Edge Vortex

N = Normal Force

PM = Pitching Moment

Re = Reynolds Number

RM = Rolling Moment

S = Side Force

 U_{∞} = Free-Stream Velocity (in/sec)

UCAV= Unmanned Combat Air Vehicle

YM = Yawing Moment

 α = Angle Alpha; AoA (degrees)

 α^{+} = Nondimensional Pitch Rate

 ϕ = Roll Angle (degrees)

 $\dot{\phi}$ = Roll Rate (degrees/sec)

 ϕ^+ = Nondimensional Roll Rate

ACKNOWLEDGMENTS

I would like to thank Professor M. S. Chandrasekhara for his direction and guidance in this field of research. I would also like to thank him for sharing his vast level of knowledge when it comes to aerodynamics; he has an understanding of things that I still struggle to comprehend. I could not have accomplished even a small part of this work without his support and tutelage.

I would also like to think Mr. Mike Kerho and Mr. Brian Kramer, of Rolling Hills Research Corporation, for accepting my lack of knowledge when it came to trouble-shooting water tunnel problems. Thank you to Mr. John Mobley of the Naval Postgraduate School. Without your assistance, I would not have been able to begin this work.

Last, but not least, I would like to express my unending love and appreciation for my beautiful wife, Tiffani, my son, James "Tyler," and my daughter, Kaelyn. Without their understanding, patience and sacrifice, I would not have had the time or energy to complete this work. Thank you from the bottom of my heart.

I. INTRODUCTION

A. UNMANNED COMBAT AIR VEHICLE (UCAV) AERODYNAMICS

An unmanned combat air vehicle (UCAV) can be called on to perform many unique and different missions. It is likely to encounter serious counter measures and may be required to perform evasive maneuvers. Failure here could mean not only the loss of the flight vehicle, but also could provide access to modern secrets held onboard to the enemy. Thus, it is critical to establish the maneuvering characteristics of the aircraft; as a better understanding of the unsteady flows during a maneuver is always desired. The present study aims to address this shortcoming. Understanding the aerodynamics is essential for engineers to be able to develop an airfoil that meets the above conditions.

Boeing has tested a tailless UCAV design, designated as UCAV 1303, as seen in Figure 1 [1]. This design uses a blended wing-body configuration, with a leading edge sweep of 47° and a cranked trailing edge [2]. The unusual configuration presents difficulties in fully understanding how a UCAV 1303 will perform under certain flight conditions. The aerodynamics knowledge base of a conventional delta wing is well established, but that data for nonslender leading edge wings needs more study. Gursul [3] has provided some insight into the flow past the UCAV 1303 wing at low speeds and indicates that the aerodynamics is dominated by spanwise three-dimensional flow typical of a yawed wing at low angles of attack. However, at higher angles, the characteristics of a delta wing appear; in particular, a conventional delta wing vortex forms, grows with increase in angle of attack, and eventually breaks down causing significant load and moment disturbances. Some of these have been characterized in low speed experiments and computational studies. For example, it has been shown that there exists a pitch break problem on the leading edge radius. Studies by Petterson [4] have shown that the geometry has a tendency for premature tip-stall at very low angles of attack, which can introduce this pitch break. Additional features appear as the flow conditions are changed. In particular, the vortex bursting that seems inevitable at higher angles of attack leads to changes in the lift curve slope. The onset angles of attack for these events also changes with Reynolds number and Mach number [5]. The effects of unsteady maneuvers on these basic flow aspects and the concomitant loads have not been studied until now. In addition, most previous studies have been limited to the case of a flat plate and no fuselage effects have been included.

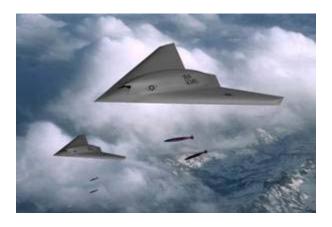


Figure 1. UCAV Concept, From [1]

B. NONSLENDER DELTA WING FLOW DESCRIPTION

The UCAV 1303 model has flight characteristics of a delta wing, but it also has flight characteristics of a lambda wing. As a delta wing, the flow consists of two vortex patterns that form over the wings. The vortices form in the vicinity of the swept leading edge at high angles of attack just above the wing surface and are caused by flow shear layers that are unable to negotiate the sharp leading edge. The subsequent vortices that form are Reynolds number dependent and are caused by local boundary layer separation [5].

The low pressure inside the vortex is known to be responsible for the additional lift observed during its presence on the wings upper surface and is known as vortex lift. Depending on flow conditions such as Reynolds number, Mach number, and angle of attack, the vortex remains on the surface or moves down the wake. However, at a large

angle of attack for these flight conditions, the vortex lift ends abruptly with its bursting (breakdown). The angle of attack when this occurs is referred to as the critical angle of attack. The breakdown phenomenon is complex, is influenced by many factors including the wing design, and can be bubble type bursting or spiral breakdown. Regardless of the underlying mechanism, it has an adverse consequence on the flight performance of the vehicle [6] that manifests as strong undesirable loads demanding high frequency response from the control system for stable flight.

In the case of the UCAV 1303 geometry, local maximums in the lift coefficient occur between the outboard crank and the tip and local minimums at the inboard trailing edge crank. At or near these points flow separation also takes place. It is this flow separation that causes the UCAV 1303 to experience undesirable pitch-up behavior at times [7].

C. REVIEW OF BACKGROUND LITERATURE

Results of several studies can be found in the literature, but each has a very different goal from that of the present study. Some simply tested a flat plate planform of the UCAV 1303, others included fuselage. Even engine mass flow has been incorporated in some CFD work. Primarily, the foci of all these were on the aerodynamic characteristics of the UCAV 1303, but confined to low - moderate angles of attack. A study conducted at the Boeing Polysonic Wind Tunnel reached a maximum angle of attack of 20° [7]. Another study conducted by QinetiQ [5] extended up to an angle of attack of 25°, with emphasis on documenting the effects of the leading edge radius. Figure 2a shows the result of this experiment and presents the lift coefficients associated with three leading edge designs. From this figure it can be seen that a sharp leading edge is less sensitive to Mach number than a rounded leading edge. Figure 2b shows the pitching moment coefficients for the same three designs, which confirms that a sharp leading edge design is less sensitive to Reynolds number compared to a rounded leading edge. It can also be seen that at angles of attack of around10°, the UCAV 1303 exhibits sharp rise in the pitching moment [5].

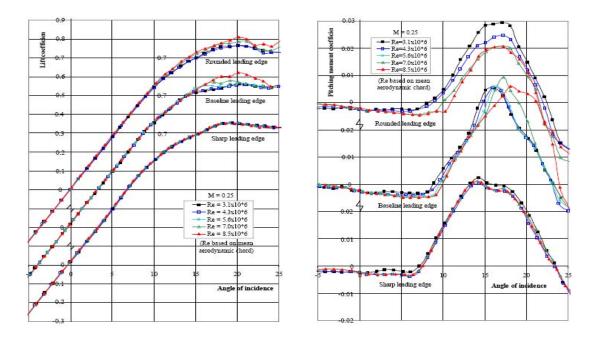


Figure 2. Left (a) Variation of Lift Coefficient; Right (b) Pitching Moment, With Angle of Attack From [5]

Some low speed water tunnel tests conducted have also been performed; mainly for qualitative and quantitative flow visualization. Dye visualization and particle image velocimetry have provided valuable information of the flow field over a UCAV wing, Ol [2] and Nelson, et al [8]. However, the two tests also produced significantly different conclusions. Ol [2] showed only a single case of LEV formation occurring at 12° angles of attack, while Nelson found multiple vortices forming at angles of attack greater than 8°. McLain [9] and Chua [10] utilized a water tunnel with dye visualization that produced convincing evidence of LEV formation at AoA as low as 6° with indications of tip stall at various angles of attack.

Others have conducted computational fluid dynamics (CFD) studies on the UCAV 1303. The results of the CFD studies are similar to the results of the wind tunnel tests under the same conditions. However, only a limited range of flow conditions have been attempted with CFD and thus, exact case-by-case comparisons are not possible. Whereas the fluid mechanics details of the flow around a UCAV are now reasonably well

established, and a modest amount of aerodynamics performance load data is publicly available, a more concentrated effort is still needed for the aerodynamic coefficient data. This is especially critical under maneuvering conditions as a UCAV can be expected to perform such motions when evading threats.

D. GOALS OF THE PRESENT STUDY

As already stated, the available UCAV 1303 configuration load data pertains mostly to steady flight conditions. These are useful in determining how a UCAV operates when in straight, level flight; but not in determining performance during evasive maneuvers. Maneuvers introduce additional loads and moments due to the imposed unsteadiness effects on the flow vorticity field. These forces are relatively easy to measure in one dimensional maneuvers below some angle of attack; the difficulty is introduced when measuring unsteady flow at high angles of attack (AoA). During high angle of attack, pitch-up maneuvers for example, there are effects induced from the side and yaw forces. Likewise, corresponding changes appear in the moments. Since most facilities are indeed steady flow tunnels, it is not possible to execute rapid maneuvers to obtain critical flow induced loads. But, with a model motion system capable of precisely controlling the model attitude dynamically, and a sensitive load balance system, the present experiment can be performed and provide this critical load data.

The information presented herein will focus on obtaining lift and side forces, as well as pitching, yawing, and rolling moments as the UCAV model executes various maneuvers at different free-stream velocity values. Data has been obtained for a large experiment matrix for different Reynolds numbers. The data could be subsequently used to estimate the UCAV stability derivatives. The objectives of this study are the following: to determine the resulting loads on a UCAV during complex maneuvers, to determine the correlations between any pitch breaks and the unusual fluid mechanics aspects like premature tip stall and asymmetric vortex breakdown, and to quantify the role of the bursting of the leading edge vortex generated during complex maneuvers and its effect on the various performance quantities of this tail-less UCAV.

II. DESCRIPTION OF EXPERIMENTAL FACILITY AND TECHNIQUES

A. THE NPS WATER TUNNEL

The Naval Postgraduate School water tunnel is a 15" x 20" cross-section flow channel – Rolling Hills Research Corp, (RHRC) Model 1520. This facility is a recirculating flow system that allows the operator to assess a model's aerodynamic performance in static or dynamic flight conditions. The water tunnel is constructed out of tempered glass and provides optical access from all sides and from the rear. The horizontal configuration of the tunnel allows ease of model access without having to drain the tunnel completely [11].

The test-section of the tunnel has a cross section of 300 in² and is 60" long. Its sidewalls have a slight divergence to account for the effects of boundary layer growth, which allows for maintaining uniform velocity throughout the test section region. The tunnel was set up so that the viewing section is at eye level, but it also allows a camera to be positioned underneath to record flow field images. The velocity in the test section varies from 0 in/sec to 14 in/sec resulting in a wide Reynolds number range for performing the tests. Typically, dye flow visualization studies are conducted at lower speeds because the shear layer instabilities of the injected dye become turbulent at higher velocities and spoils the dye definition, velocity measurements are conducted at all speeds and load data is obtained at higher speeds using, an attached strain-gage balance system to determine aerodynamic forces and coefficients [11]. As the speeds are in general smaller in a water tunnel compared to a wind tunnel, the strain-gage balance must be very sensitive. Here, a load of a few grams can be measured accurately. Figure 3 shows a schematic and a picture of the water tunnel.

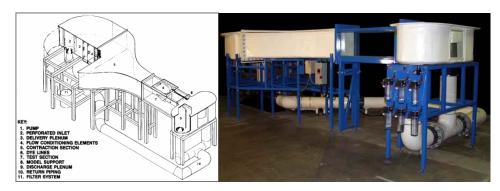


Figure 3. Flow Visualization Water Tunnel, Model 1520, From [11]

B. THE UCAV 1303 MODEL

The models used for experimentation during this research are UCAV 1303 configuration, with a scale of 1:72. The selection of the geometry was dictated by the availability of CAD files (supplied by USAF) and the general interest in it by the The Technical Co-operation Programme group. This particular UCAV geometry is tailless and consists of a low 47° sweep leading edge with ±30° and ±47° cranked trailing edge. Two separate models were fabricated. The model for flow visualization was constructed from Nylon 12PA using rapid prototyping methods for the upper and lower surface sections that were glued after embedding the dye visualization tubes to form a single piece. Eight symmetric dye ports inserted internally to the model to enable dye injection. Figure 4 shows the dimensions and the internals of the dye tubes within the model [10].

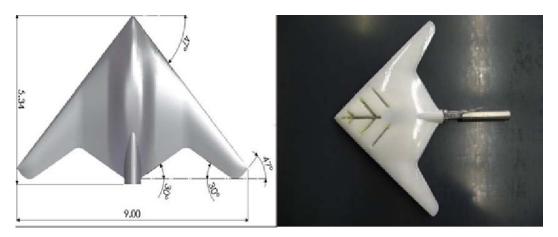


Figure 4. Model Dimensions and Placement of Dye Ports, From [10]

The model for use with the strain-gage was constructed of a solid piece, with provision for accommodating a load balance. This allowed for the insertion of a five-component, water tight strain-gage balance, which will be discussed in the next section. Once inserted, a protective cover designed to properly represent the model external surface was placed over it. A matched screw hole ensures firmly attaching the model to the strain-gage balance and transmitting the loads directly to it [10].

C. LOAD MEASUREMENT INSTRUMENTATION

The balance used for measurement of forces and moments is an internal balance consisting of five strain-gages that are connected using a full Wheatstone bridge for each channel. Each gage has external standard resistors to compensate for gage resistance and changes in temperature when running the tunnel during experimentation. Five wires are attached to each gage, a positive and negative input, a positive and negative output, and a wire used as a potentiometer to balance the strain-gage externally. Table 1 shows the values of each external resistor and Figure 5 shows the full Wheatstone bridge [11].

Channel	R1	R2	R3
CH1 (YM1)	1k Ω	0 Ω	458.7k Ω
CH2 (PM1)	1k Ω	0 Ω	152.5k Ω
CH3 (RM)	1k Ω	0 Ω	756.5k Ω
CH4 (PM2)	1k Ω	0 Ω	38.8k Ω
CH5 (YM2)	1k Ω	0 Ω	351.3k Ω

Table 1. Resistor Values, From [11]

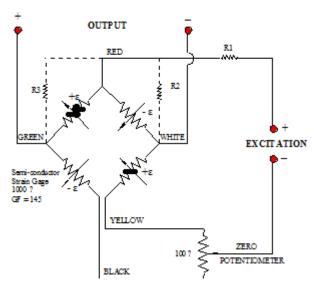


Figure 5. Wheatstone Bridge Circuit, From [11]

The strain-gage balance has five sections and allows for simultaneous measurement of pitching, yawing, and rolling moments as well as normal and side forces. The balance is covered with layers of RTV silicone and waterproofed for reliable operation in the water tunnel. Each gage in the balance has a 1000Ω impedance semiconductor with maximum loadings that meet the manufacturer's specifications. The gage maximum loadings were determined to meet required stress levels and also to allow for proper gage sensitivities. The sensitivities of the gages are identical and listed in Table 2 [11].

Force/Moment	<u>Sensitivity</u>
N	2.4 V/lb
S	16.8 V/lb
PM	5.0 V/in-lb
RM	10.2 V/in-lb
YM	16.4 V/in-lb

Table 2. Balance Sensitivity, From [11]

The system used for monitoring the experiments consisted of a Model 2100 Strain-gage Conditioner and Amplifier made by Vishay Measurements Group. This multi-channel system enabled strain-gage measurements and provided conditioned high level signals [11]. The signal conditioner also included a digital output display and allowed for independent and variable excitation for each channel. In this experiment 5 volts of excitation with a gain of 200 was used. The signals received by the system were then sent to an A/D board for processing. Sampling rates of 100 kilo-samples/sec were possible with the A/D board; a rate of 100 samples/sec was used during this study.

Three separate DC stepper motors control model motion in pitch, roll and yaw; pitch angle is variable between -1° and +40°, roll angle is variable between ±360° and yaw angle is variable between ±25°. A C-strut is connected to an arm affixed to the tunnel and controls pitch angle. A turntable mounted on top of the water tunnel was connected to the C-strut and provided control of the yaw angle. The rolling motion was controlled by a DC motor mounted directly to the rear of the model support and was water proofed to allow for full submersion [8]. The arrangement ensured that the model rotational axis coincided with that of the C-strut system, so that no relative motion was present.

Each motor is controlled by a commercial off-the-shelf system and is powered by a nuDriveTM power amplifier. This system uses servo motors to allow position feedback and obtain accurate motion in all three axes. The nuDriveTM unit is connected to an IBM-compatible computer system that uses LabViewTM software commands. LabViewTM allows dynamic testing commands as well as step motion commands [11]. Figure 6 shows the model support and the individual DC motors.

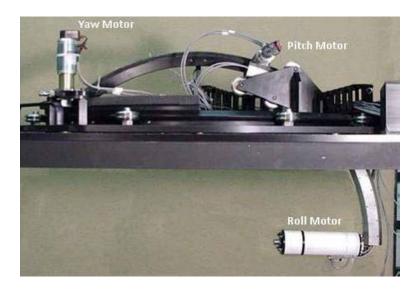


Figure 6. Water Tunnel Model Support, From [11]

D. CALIBRATION OF STRAIN-GAGE SYSTEM

The strain-gage balance is calibrated at the NPS water tunnel facility following the standard procedure recommended by Rolling Hills Research Corporation. The data reduction method that was followed is transparent to the user and is a part of the calibration software supplied by RHRC. The calibration accounts for the interference effects of the gages as the output from one of the pitching moment gages is dependent on a normal force, and a yawing moment or rolling moment.

The balance is attached to the calibration rig shown in Figure 7, and weights representing a full range of expected loads, 0 grams to 150 grams, are hung from the balance support in the normal force $(\pm N)$ direction at each of the five load points shown in Figure 8. The computer software determines a linear curve fit for the slope at each load point. This procedure is repeated for the -N direction and for the side force $(\pm S)$ forces as well. The $\pm N$ and the $\pm S$ forces are used to determine pitching and yawing moment coefficients. Weights hung in the positive and negative direction at the reference center determine the rolling moment coefficient [12].

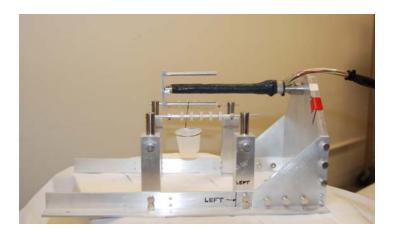


Figure 7. Internal Balance and Calibration Rig, From [12]

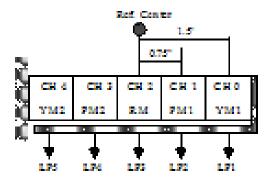


Figure 8. Balance and Load Fixture Geometry, From [12]

To validate the calibration procedure, the acquisition/reduction software develops slopes associated with each channel under load, and the sensitivities of these channels are plotted in Figures 9, 10, and 11. The slope of each plot shows the channel's response to an applied moment in the respective plane, while the y-intercept shows the response to an applied force. In Figure 9, a pitching moment develops while the force is normal. Figure 10 depicts a yawing moment and a side force. Figure 11 shows the rolling moment sensitivity. After creating all graphs, the software automatically builds a calibration input matrix using the coefficients determined as described above. This input matrix is inverted to obtain the output matrix listed in Table 3 as derived by Equation 1. The software uses this matrix to calculate forces and moments from gage readings [12].

Calibration Output Matrix

$$\begin{bmatrix} N \\ PM \\ S \\ YM \\ RM \end{bmatrix} = \begin{bmatrix} \frac{\partial N}{\partial YM1} & \frac{\partial N}{\partial PM1} & \frac{\partial N}{\partial RM} & \frac{\partial N}{\partial PM2} & \frac{\partial N}{\partial YM2} \\ \frac{\partial PM}{\partial YM1} & \frac{\partial PM}{\partial PM1} & \frac{\partial PM}{\partial RM} & \frac{\partial PM}{\partial PM2} & \frac{\partial PM}{\partial YM2} \\ \frac{\partial S}{\partial YM1} & \frac{\partial S}{\partial PM1} & \frac{\partial S}{\partial RM} & \frac{\partial S}{\partial PM2} & \frac{\partial S}{\partial YM2} \\ \frac{\partial YM}{\partial YM1} & \frac{\partial YM}{\partial PM1} & \frac{\partial YM}{\partial RM} & \frac{\partial YM}{\partial PM2} & \frac{\partial YM}{\partial YM2} \\ \frac{\partial RM}{\partial YM1} & \frac{\partial RM}{\partial PM1} & \frac{\partial RM}{\partial RM} & \frac{\partial RM}{\partial PM2} & \frac{\partial RM}{\partial YM2} \end{bmatrix} \bullet \begin{bmatrix} YM1 \\ PM1 \\ RM \\ PM2 \\ YM2 \end{bmatrix}$$

$$(1)$$

<u>YM1</u>	<u>PM1</u>	<u>RM</u>	PM2	<u>YM2</u>
5.67x10 ⁻¹	4.02x10 ⁺¹	4.18x10 ⁻¹	3.99x10 ⁺¹	-9.27x10 ⁻¹
-6.57x10 ⁻¹	-2.20x10 ⁺¹	-5.9x10 ⁻¹	-1.89x10 ⁺¹	-4.93x10 ⁻¹
-6.05x10 ⁺⁰	5.62x10 ⁻¹	2.29x10 ⁻²	-5.40x10 ⁻¹	6.33x10 ⁺⁰
6.49x10 ⁺⁰	-1.78x10 ⁻¹	5.67x10 ⁻¹	-2.88x10 ⁻¹	6.21x10 ⁺⁰
-7.57x10 ⁻¹	-1.00x10 ⁺⁰	-9.84x10 ⁺⁰	7.25x10 ⁻¹	7.44x10 ⁻¹

Table 3. Calibration Output Matrix (lbf/V or in-lbf/V)

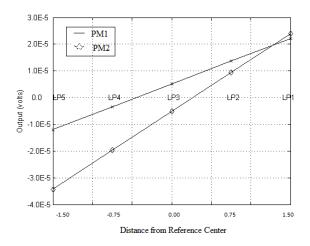


Figure 9. Pitching Moment Sensitivity

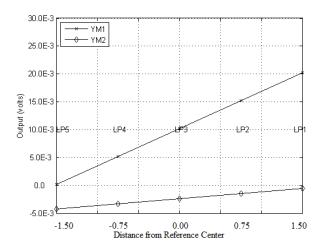


Figure 10. Yawing Moment Sensitivity

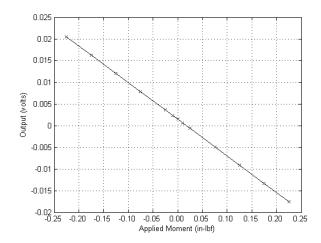


Figure 11. Rolling Moment Sensitivity

E. EXPERIMENTAL TECHNIQUES

1. Flow Visualization

The initial phase of the experiments used dye flow visualization to document the flow field around the steady and maneuvering UCAV 1303 configuration. The flow visualization data provides a qualitative representation of the flow around the UCAV, including spanwise and off-body flows. The technique uses a pressurized water soluble food coloring (dye) that is delivered to the model using the dedicated lines provided by

the model support system in the water tunnel facility. A pressure regulator controls shop air pressurized to 20 psi. The quantity of dye injected is managed depending on the tunnel speed and angle of attack used during testing [9]. Sufficient care was taken to ensure that the dye was neutrally buoyant, injected with the least possible momentum and therefore truly represented the flow streamlines that eventually enter and become the vortical flow around the maneuvering UCAV.

Two cameras recorded the flow visualization studies. The first took pictures of the model's side view and the second of the top view of the model. When the test was performed, two flow images at the same AoA were captured with both cameras properly synchronized. For imaging maneuver flow features, the motion as monitored by the nuDriveTM system was input to a secondary computer, which controlled and synchronized the cameras through software to ensure that the photos were indeed phase-locked [10]. Figure 12 shows the phase locking schematic for data acquisition.

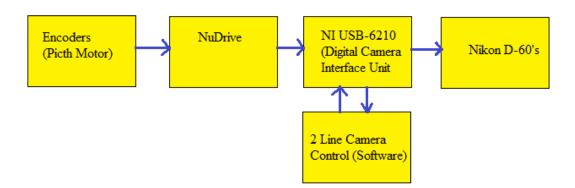


Figure 12. Schematic of Phase-Locked Data Acquisition, From [10]

2. Steady Load Measurements

Steady load measurements consisted of obtaining load data for different flow conditions around the UCAV 1303. The different Reynolds numbers used during the tests corresponded to tunnel speeds of $U_{\infty}=6$ [in/s], $U_{\infty}=10$ [in/s] and $U_{\infty}=14$ [in/s]. The runs consisted of selecting a one dimensional sweep and hold in either the pitch plane or yaw plane of motion from the motion control software. Each run consisted of

establishing the bounds of the test, including tunnel speed, AoA minimum and maximum, and stabilization times. The tunnel was given a stabilization time of 200 seconds, a measurement time at each point of 20 seconds in duration and a 100 Hz static sampling frequency. The model moved in increments of $\Delta\alpha$ =2° and $\Delta\beta$ =5° between the range of 0°-30° for AoA and 0°-90° for roll. The software used the calibration output matrix above to determine the force and moment coefficients to be used for later analysis.

3. Maneuver Performance Measurements

Dynamic testing was performed as a main objective of this thesis. The data obtained was also compared with static force and moment data. To remove gravitational and inertial effects, tare data was taken before commencing the test and after the tunnel speed stabilized. Unsteady load measurements were performed at the same tunnel speeds as steady load measurements. The tunnel was again given a stabilization time of 200 seconds and a measurement time at each point of 20 seconds. A systematic investigation of data acquisition at different rates led to a decision to use a sampling frequency of 60 Hz with 120 samples for satisfactory results.

A varying nondimensional pitch rate allowed for comparison between the model of this investigation and other published data. The nondimensional pitch rate, or degree of unsteadiness, is given by Equation (2). Pitch rates of α^+ =0.05, α^+ =0.10 and α^+ =0.15 were used for the maneuvers conducted at $U_{\infty}=6$ [in/s]; pitch rates of α^+ =0.05 and α^+ =0.10 were chosen for the maneuvers conducted at $U_{\infty}=10$ [in/s], but only a pitch rate of α^+ =0.05 could be selected for the maneuvers conducted at $U_{\infty}=14$ [in/s] due to facility limitations.

$$\alpha^{+} = \frac{\dot{\alpha} \, \overline{c}}{U_{\infty}} \tag{2}$$

The roll maneuver load data was obtained with parameters matching previous work [9]. Roll rates ($\dot{\phi}$) of 3°/sec and 7°/sec were analyzed for rolling motion between 0° and 90°. This corresponded to a nondimensional roll rate of ϕ^+ =0.03 and ϕ^+ =0.07,

respectively. The range of roll angles used matched that used for steady testing making a fair comparison possible. Figure 13 shows typical time histories of the motion used in both the pitch plane and roll plane.

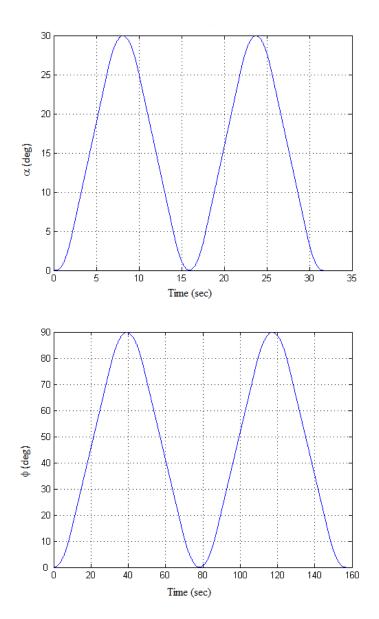


Figure 13. Motion History of the UCAV 1303 Model; Top: AoA Vs. Time (sec), Bottom: Rolling Angle Vs. Time (sec)

4. Data Reduction Method

In steady flow testing, runs at each velocity were performed ten times for the same flow conditions. These runs were averaged to determine where pitch breaks and other phenomenon occurred. Figure 14 shows the typical variation of the normal force coefficient versus AoA for a single pitch-up motion and Figure 15 the results averaged over the ten runs. Reasonable agreement can be seen between the two plots and therefore, it can be taken as a true representation of the flow features. With such averaging, variations between cycles are eliminated, which affect the measured loads. Some differences can be found at post-vortex bursting angles, which can be attributed to difference in flow evolution in each case.

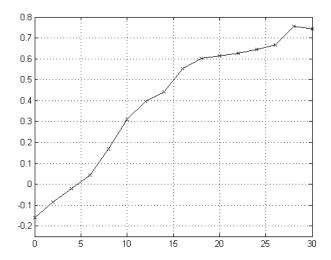


Figure 14. Single Pitch Maneuver, C_N , $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}-30^{\circ}$

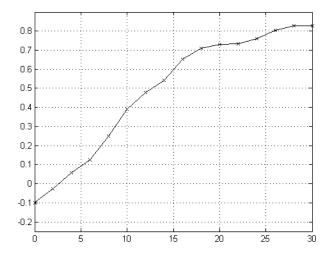


Figure 15. Multiple Pitch Maneuvers, C_N , $U_\infty = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 0^\circ-30^\circ$

The moments are measured at the point where the strain-gage is attached to the model, $0.53 \, \bar{c}$ aft of the aerodynamic center. For ease of reference to the data obtained by others, the moments were referenced to the quarter-chord point measured from the model apex. Equation (3) shows how the moments were referenced to the aerodynamic center.

$$PM_{A.C.} = PM - (1.8762 * N * \cos \alpha) \tag{3}$$

Even for maneuver performance measurements, the sampling frequency of 60 Hz and 120 samples were determined as satisfactory after multiple runs of data. Varying the sampling frequency and number of samples did not help capture any unusual features of the aerodynamic phenomenon being studied. Initially, when performing pitch-up maneuvers, each individual dynamic test was performed with 20 replications. The tests were repeated five times for a total of 100 replications. No new flow features could be derived from the results averaged over the 100 runs. It can be seen in Figures 16, 17, and 18 that the average performance deduced from 20 replications is better than a single realization of the event but negligible differences are seen between the averages of 20 and

100 cases. Whereas in reality, each maneuver is performed only once at a time, just such a simulation is likely to give large variations in the measured load and moment values and the angles at which such changes occur. To avoid erroneous interpretation of the results and to also avoid undue smearing of the data at post vortex bursting angles, averaging over 40 repetitive maneuvers was chosen as adequate. Therefore, it became possible to document statistically stationary results and thus, was used as the standard for the studies.

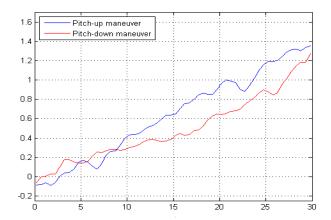


Figure 16. Normal Force Coefficient, Pitch-Up/Down Maneuver, Single Maneuver, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ$ -30°

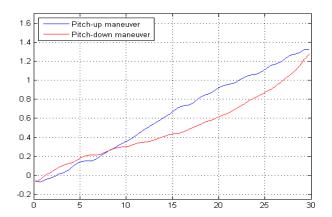


Figure 17. Normal Force Coefficient, Pitch-Up/Down Maneuver, 20 Replications, $U_{\infty}=6$ [in/sec], Re = $1.17x10^4$, $\alpha=0^{\circ}-30^{\circ}$

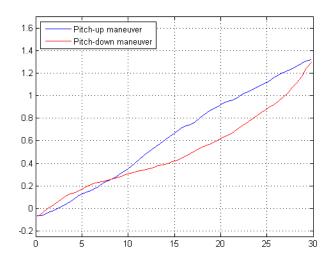


Figure 18. Normal Force Coefficient, Pitch-Up/Down Maneuver, 100 Replications, $U_{\infty}=6 \text{ [in/sec], Re}=1.17x10^4, \alpha=0^{\circ}\text{--}30^{\circ}$

F. EXPERIMENTAL CONDITIONS

The experiments were conducted for the following conditions.

U_{∞}	6 [in/sec]	10 [in/sec]	14 [in/sec]
Re	$1.17x10^4$	2.15x10 ⁴	2.94x10 ⁴
Pitch Angles	0°-30°	0°-30°	0°-30°
$\alpha^{\scriptscriptstyle +}$	0.00, 0.05, 0.10, 0.15	0.00, 0.05, 0.10	0.00, 0.05
Δα	2°	2°	2°
Roll Angles	0°-90°	0°-90°	0°-90°
Δφ	5°	5°	5°
ф ⁺	0.03, 0.07	0.02, 0.04	

Table 4. Experimental Conditions

G. MEASUREMENT UNCERTAINTY

The experimental uncertainties were estimated in the usual manner by including the uncertainties in each major component that forms the quantity measured and are listed in Table 5.

Parameter or coefficient	% Uncertainty	
U_∞	± 4 %	
ρ	± 0.2 %	
Normal Force	± 2 %	
Side Force	± 0.5 %	
Moments	± 1 %	
Си	± 5 %	
См	± 3 %	
Cs	± 1 %	
Сүм	± 3 %	
Скм	± 3 %	

Table 5. Table of Measurement Uncertainty

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III. RESULTS

A. KEY STEADY AND UNSTEADY FLOW FEATURES OVER UCAV 1303

Previous testing done at the NPS water tunnel focused mainly on flow visualization. Also, only limited performance data was obtained previously on a maneuvering UCAV. Because it was desirable to validate the new data while also verifying the previous data, some previous tests were repeated. Specific comparisons with tests performed by McLain [9] were drawn. Each test began with taking a zero weight tare measurement while the tunnel had a no flow condition, $U_{\infty} = 0$ [in/sec]. The tunnel was allowed a warm-up time as previously mentioned; and when the test was completed, the tare data was removed from the measured values. Figure 19 shows previous flow visualization data and strain-gage measurements at $\Delta\alpha = 2^{\circ}$ during a pitch-up maneuver from 0°-30° AoA. Figure 20 shows the current study under the same conditions. In comparing these two figures, there are little differences between the two flow visualization images; and the differences in strain-gage measurements, while slightly offset, are attributable to a small difference within the model alignment of different operators and lies within the band of experimental uncertainties.

Hysteresis loops are evident on some of the aerodynamic coefficients consistent with expectations for data runs performed in an oscillating manner. As the model begins to change directions from pitch up to pitch down or from a roll to starboard back to a roll to port; the aerodynamic nonlinearities introduce a finite time delay as the flow adjusts to the changes (like reattach if separated) and so, the hysteresis develops. These loops are evident mainly in the C_N and C_M plots during pitching maneuvers and in the C_M , C_{YM} and C_{RM} plots during roll maneuvers. The expectation is that these loops will decrease in size as the speed of the oscillation increases.

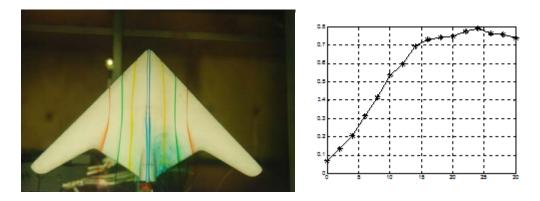


Figure 19. Normal Force Coefficient, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, Left: $\alpha=2^\circ$, Right: $\alpha=0^\circ\text{-}30^\circ$

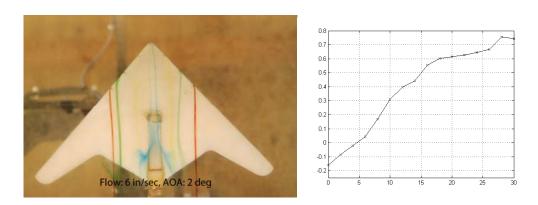


Figure 20. Normal Force Coefficient, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, Left: $\alpha=2^\circ$, Right: $\alpha=0^\circ\text{-}30^\circ$

B. STATIC LOAD MEASUREMENT STUDIES

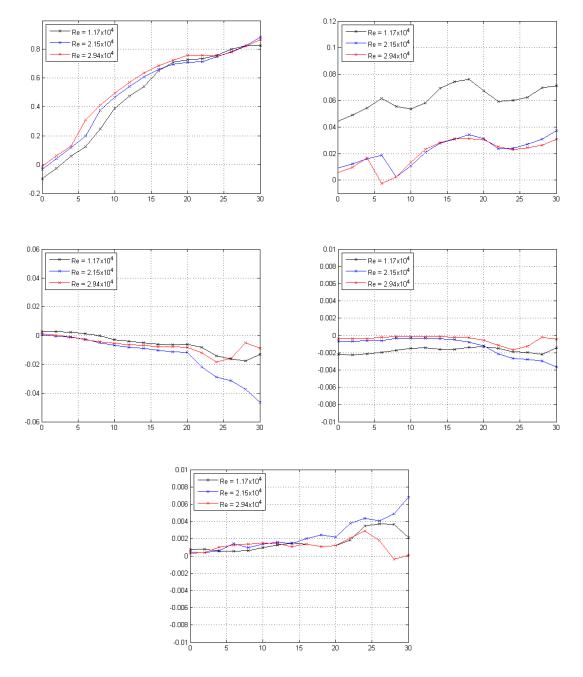
1. Effect of Reynolds Number

As was done in previous studies, Nelson et al. [8] and McLain [9], the Reynolds number was varied from $1.17x10^4$ to $2.94x10^4$ by changing the freestream velocity in the water tunnel. The corresponding tunnel speeds were 6 [in/s], 10 [in/s] and 14 [in/s].

Initial testing consisted of a steady flow case of pitching up in step increments from 0°-30° AoA with the model held stationary during data acquisition at $\Delta\alpha=2^\circ$. Figure 21 shows C_N , C_M , C_S , C_{YM} and C_{RM} for the pitch-up maneuver as the Reynolds number is changed. It is clear from the C_N plot that the normal force curve is not linear,

even at a low angle of attack a 4° deviation is found, contrary to what can be expected. This is believed to be due to the occurrence of light tip-stall [9] at a very low angle of attack. Several changes in the slope of the curve, $\alpha = 4^{\circ}$, 6° , 8° , 10° and beyond, are also seen here for all Reynolds numbers studied. The pitching moment shows a slight positive value and slowly increases over the $0^{\circ} < \alpha < 6^{\circ}$ at the lowest Re tested. It can be seen that as the Reynolds number increases, the pitching moment coefficient decreases and approaches a near zero value, increasing slightly with α . The Reynolds number also has an effect on LEV formation and induces the LEV at a lower AoA. It has been shown by Chandrasekhara and McLain [13] that the vortex formation angle is reduced as the Reynolds number is increased.

A side-by-side comparison of C_N & C_M in Figure 21 shows that each normal force slope change is associated with a similar abrupt moment change. As the vortex forms and bursts, a larger C_M is noticed and this is an indication of the effects of the bursting event. The oscillations in the C_M values point to a possibility of asymmetric events occurring on the two sides of the aircraft fuselage. Accordingly, the side force C_S remains near zero as can be expected at low angles of attack, but as the angle of attack increases to post vortex formation values, it becomes sizeable. Reynolds number also appears to cause an increase in the side force. Thus, at higher angles of attack, side-slip and asymmetric forces that could induce forced oscillations could become an issue for this configuration.



 $\label{eq:continuous} \begin{array}{ll} Figure~21. & Reynolds~Number~Effects,~\alpha=0^{\circ}\mbox{-}30^{\circ},~Top:~Left-C_N,~Right-C_M,~Middle:~\\ & Left-C_S,~Right-C_{YM},~Bottom:~C_{RM} \end{array}$

In studies by Chandrasekhara and McLain, a similar trend was seen. However, they observed an increase in C_S values as α was increased. It is believed that this

difference is due to the fact that the vortex breakdown mechanism is known to have a random preference to one side of the wing and the fact that the model was removed and reset; even a slight difference in the new orientation could produces these differences. Also, as the vortex bursts, the side forces may change as seen for the highest Reynolds number result presented. These reasons offer support for a premise that a corresponding change in rolling moment can be expected and this is confirmed by the data seen in Figure 21. The effects on yaw seem to be minimal until high angles of attack, which can also be expected given the orientation of the model used for this data set. The formation of multiple vortices on the same side of the wing and their breakdown through multiple structures indicate that yaw effects will become important at the high angles of 20° and above.

Figure 22 shows that the corresponding flow events in the pitching moment coefficient distributions shift slightly to lower angles as the Reynolds number increases. It also shows where bursting commences and finishes. Not shown here is the occurrence of the fluctuations that exist in C_S , C_{YM} , and C_{RM} . These fluctuations are small and are only evident at higher AoA's.

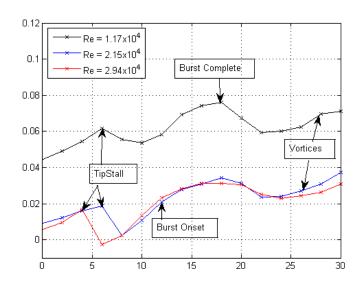


Figure 22. LEV Formation Based on Reynolds Number

2. Effect of Pitch

Establishing the performance characteristics of an aircraft with changes in angle of attack is perhaps the most common study conducted. Following the procedure already outlined, the model was pitched from 0 to 30 degrees in 2° pitch increments. Figure 23 shows the C_M variation in this case at a velocity of $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$. Tip stall occurs as early as $\alpha=6^{\circ}$ and a pitch break occurs near $\alpha=18^{\circ}$. This result is similar to the one found by Chung and Ghee [14] and appears to be a characteristic of nonslender wings. A series of unstable leading edge vortices have been observed by some on this wing and it is possible that some of the breaks can be due to this behavior [9]. Another likely cause for this early onset of pitch break and the evidence of flow separation observed in the previously mentioned flow visualization studies seems to be due to the wing experiencing tip-stall. The accompanying flow visualization picture indicates that there is also trailing edge stall (the black dye that was injected downstream locally is now flowing upstream from the wake). This phenomenon continues even at higher speeds. In addition, the flow visualization picture also shows asymmetric nose tip vortex bursting, which also could contribute to this result.

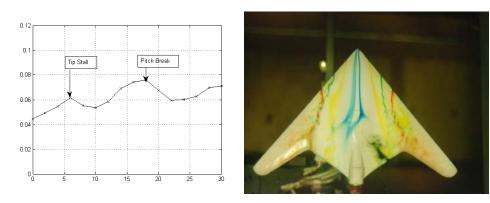


Figure 23. Pitch Break Occurrences, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 6^{\circ}$

In Figure 24 the data obtained in this study is compared to the data obtained by Petterson [4] and by Wong [15] for the C_M . Petterson [4] and Wong [15] both performed studies in a high speed wind tunnels at a Mach number of 0.25 with Re = 5.74×10^6 and

10.38x10⁶ respectively. It is seen here, that the low speed water tunnel tests are qualitatively similar to what is observed at higher Reynolds numbers and also, higher, but incompressible Mach numbers, except for the tip stall induced effects observed here.

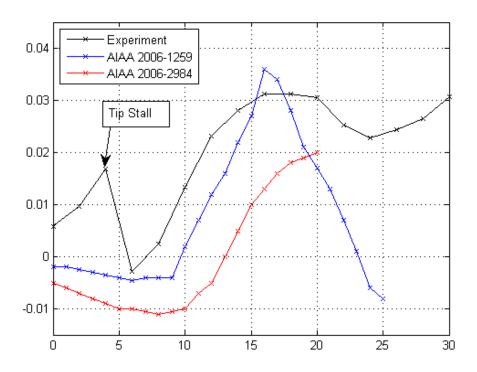
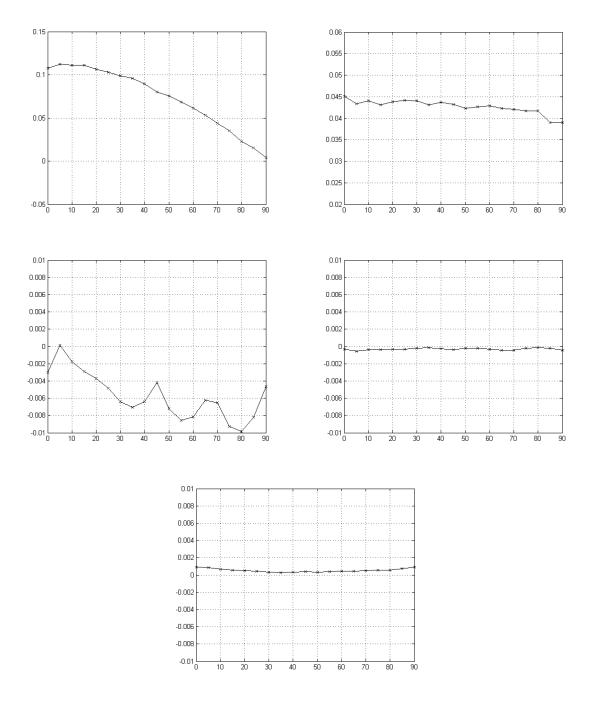


Figure 24. Comparative C_M s; Experiment: $U_{\infty} = 14$ [in/sec], $Re = 2.94 \times 10^4$, AIAA 2006-1259: $Re = 5.74 \times 10^6$, AIAA 2006-2984: $Re = 10.37 \times 10^6$

3. Effect of Roll

A group of roll tests was performed for various angles of attack starting with $\alpha = 0^{\circ}$ and ϕ being changed from 0° - 90° by a $\Delta \phi = 5^{\circ}$ that began with a roll towards the starboard side. Representative results for this case is shown in Figure 25 for $\alpha = 5^{\circ}$

.



 $\label{eq:figure 25} \begin{array}{ll} Figure \ 25. & Aerodynamic \ Coefficients, \ U_{\infty}=10 \ [in/sec], \ Re=2.15x10^4, \ \alpha=5^\circ, \\ & \varphi=0^\circ\text{-}90^\circ, \ Top: \ Left-C_N, \ Right-C_M, \ Middle: \ Left-C_S, \ Right-C_{YM}, \\ & Bottom: \ C_{RM} \end{array}$

As the aircraft rolls at this angle of attack, small changes in the normal force were measured, and corresponding changes in C_M were also observed. However, the side force showed a large change including some oscillations that indicated the possibility of uneven vortical flow development. In the tunnel arrangement, both 0° and 90° roll positions should correspond to the same flow field if there were no other effects present. However, the figure confirms that additional forces are felt by the model during a roll, even for the steady flow case. As the AoA is increased, the pitching moment steadily increases up to $\alpha = 15^{\circ}$. In this case, the vortex also forms. As it moves down the wings upper surface, the movement of the wings center of pressure can be expected to induce more adverse moments. When it is shed larger changes in the values occur. As AoA is increased to $\alpha = 20^{\circ}$, the pitching moment coefficient actually decreases. A simplistic explanation for this can be given by the observed flow visualization results [9] that the vortex on the wing away from the roll direction still remained intact and hence, the effect of vortex bursting one side had a mitigating effect on C_M as shown in Figure 26. However, the flow over the UCAV 1303 geometry is extremely complex, due to tip stall, bi-directional flow [9] on each wing at large angles of attack, reversed flow propagating upstream from the wake and so on. All the results here should be viewed in the context of such complexity being simultaneously present in the flow.

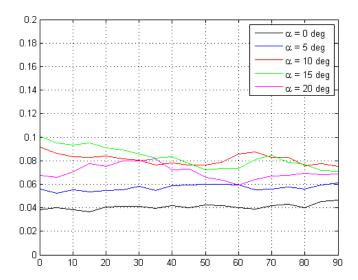
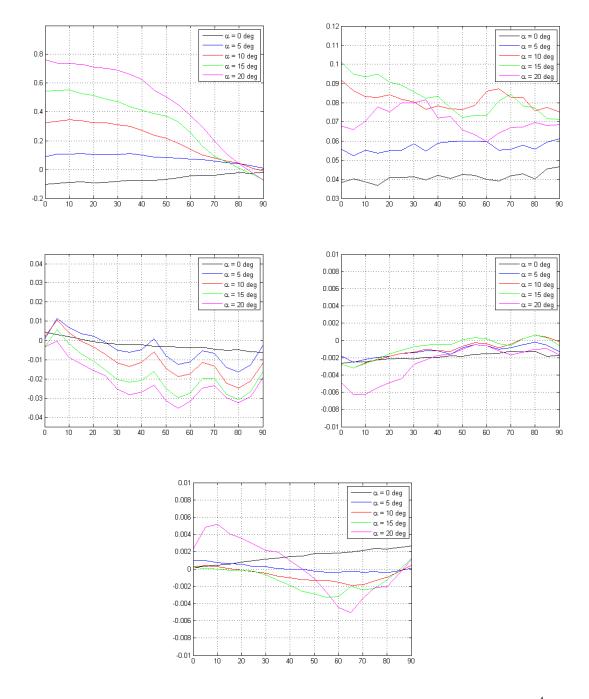


Figure 26. Pitching Moment Coefficient, $U_{\infty} = 6$ [in/sec], $\phi = 0^{\circ}-90^{\circ}$

Figure 27 shows the conditions for multiple angles of attack during a roll maneuver at $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$. C_N tends to trend upward as expected due to the higher angle of attack. The effect of this higher angle of attack is noticed in the generation of large side force C_S . It is also evident that oscillations are seen in the side force attributable to the unsteady changes in the pressure field over the wings. Since the model was mounted firmly to the balance, which was held immovably in the sting, it was not possible to conclusively determine the consequence of these oscillatory side forces on the model. It is believed, however, that this could be an indication of later problems with stability. Large deviations also appear in the rolling moment beyond $\alpha=20^{\circ}$, and a similar behavior was also observed in the yawing moment.



$$\label{eq:figure 27} \begin{split} \text{Figure 27.} \quad & \text{Static Aerodynamic Coefficients, } U_{\infty} = 6 \text{ [in/sec], } Re = 1.17x10^4, \\ & \varphi = 0^\circ\text{-}90^\circ, \text{ Multiple Angles of Attacks, Top: Left} - C_N, \text{ Right} - C_M, \\ & \text{Middle: Left} - C_S, \text{ Right} - C_{YM}, \text{ Bottom: } C_{RM} \end{split}$$

C. DYNAMIC LOAD MEASUREMENT STUDIES

1. Constant Pitch Rate Maneuver

When performing the dynamic load measurement studies, the model was set up as in the static load measurement studies with some parameters altered to allow for dynamic testing, as previously discussed. Various pitch rates were established throughout testing. The pitch rates were selected to allow comparison with previously obtained flow visualization data [9] as well as to allow comparison across multiple tunnel speeds and hence, Reynolds number effects in dynamic testing. At the higher tunnel speed, the pitch or roll rates were sufficiently large and approached the limits of the tunnel; so fewer pitch rates were studied.

Figure 28 shows the data observed in the flow visualization studies comparing pitch angles of $\alpha=0^\circ$ and $\alpha=10^\circ$ for $U_\infty=6$ [in/sec] and $U_\infty=10$ [in/sec]. It also shows the comparison between the static pitch-up ($\alpha^+=0.00$) and the dynamic maneuvers for C_N . The fact that the C_N is higher in the dynamic cases again shows that flow stays attached and the vortex busting is delayed until higher angles of attack. This agrees with the results obtained by Erm [16]. Support for the result is also found in the earlier [9] flow visualization pictures because the bursting location is further back on the fuselage at the higher velocity shown. This result is typical of slender delta wing flow and here we see a similar behavior for the nonslender UCAV 1303 wing. Even then, the C_N variations are not linear indicating that structures are present in all cases that appear at different angles depending upon the pitch rate used.

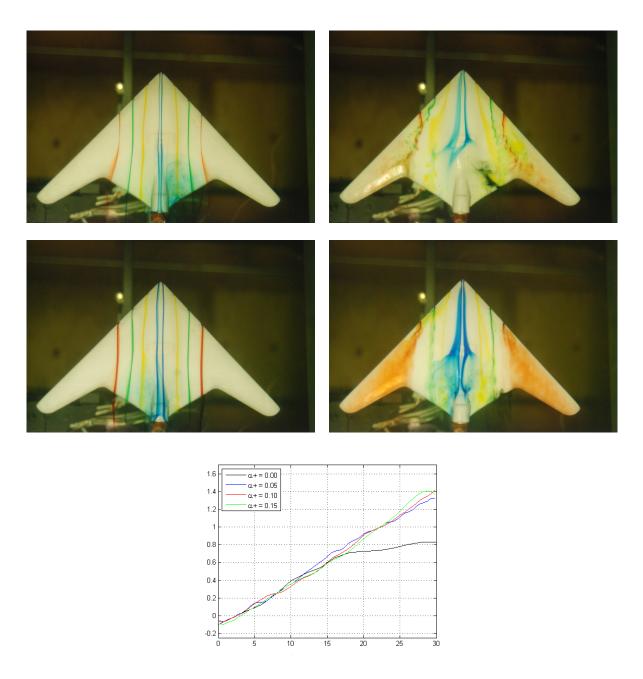


Figure 28. Top: $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, Left - $\alpha=0^\circ$, Right - $\alpha=10^\circ$, Middle: $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, Left - $\alpha=0^\circ$, Right - $\alpha=10^\circ$, Bottom: Dynamic Aerodynamic Coefficients

Figure 29 compares C_N (on the left) and C_M (on the right) at $U_\infty = 6$ [in/sec], $Re = 1.17x10^4$ for the three pitch rates investigated (increasing in magnitude from top to bottom). A hysteresis loop is present in all cases in the normal force and pitching moment. It is seen that as the nondimensional pitch rate goes up, the area of the hysteresis loop for C_N decreases. On the other hand, the C_M loop becomes wider. For the experimental conditions studied herein, the C_M variations also suggest a positive area under the pitching moment loop and hence, more positive damping at high rates.

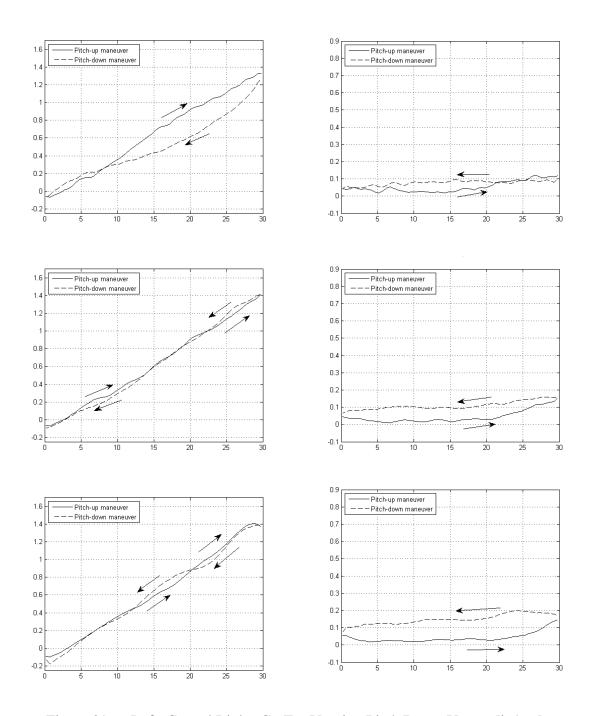


Figure 29. Left: C_N and Right: C_M For Varying Pitch Rates, $U_\infty = 6$ [in/sec], $Re = 1.17x10^4$, Top - $\alpha^+ = 0.05$, Middle - $\alpha^+ = 0.10$, Bottom - $\alpha^+ = 0.15$

2. Effect of Roll

When conducting the tests for roll, the model was positioned at varying angles of attack and allowed to roll from 0°-90° just as in the static measurements and allowed to maneuver just as in the dynamic pitch tests. As seen in the dynamic pitch maneuvers, there is a hysteresis loop that develops during roll as well. It can be seen in the rolling moment vs. rolling angle variations plotted for different angles of attack, Reynolds numbers, and roll rates in Figures 30, 31, 32, and 33 that as the angle of attack is increased, the hysteresis loop shape changes with the angle of attack and roll rate due to corresponding changes in the flow features. At $\alpha = 0^{\circ}$, the loop is symmetric indicating that the flow at all roll angles is attached. As the angle of attack increases, notable asymmetry sets in due to the differing flow characteristics on the two sides. As the rate of the roll increases, the size of the loop decreases but as the Reynolds number increases the size of the loop increases. Since the size of the loop is related to the vortical flow development and it's bursting, it can be expected that at high maneuver rates, the higher roll rate helps to maintain the flow over the wing without bursting more than at lower rates. The fact that the area of the loop is larger at the higher Re suggests that the UCAV 1303 is more stable both at higher speeds and at higher unsteadiness. The wing does not experience the severity of stall at higher speeds.

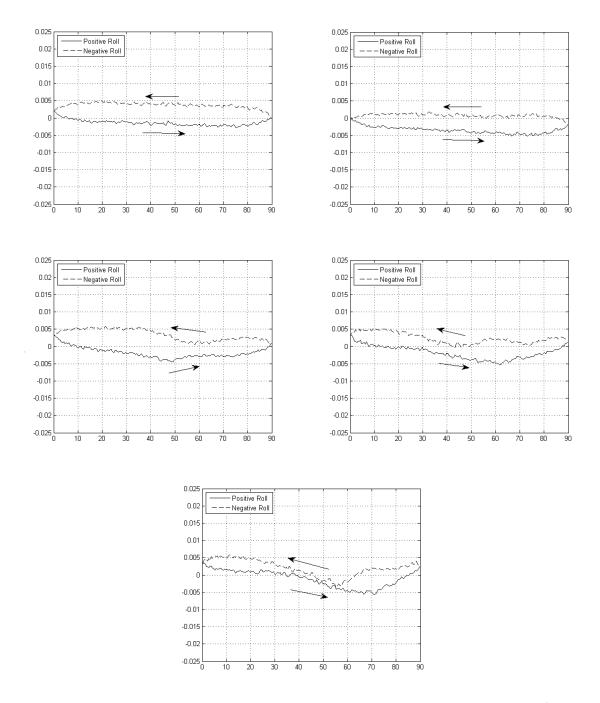


Figure 30. Rolling Moment Coefficient for $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\phi=0^\circ\text{-}90^\circ$, Top Left $\alpha=0^\circ$, Top Right $\alpha=5^\circ$, Middle Left $\alpha=10^\circ$, Middle Right $\alpha=15^\circ$, Bottom $\alpha=20^\circ$, $\dot{\phi}=3^\circ\text{/sec}$

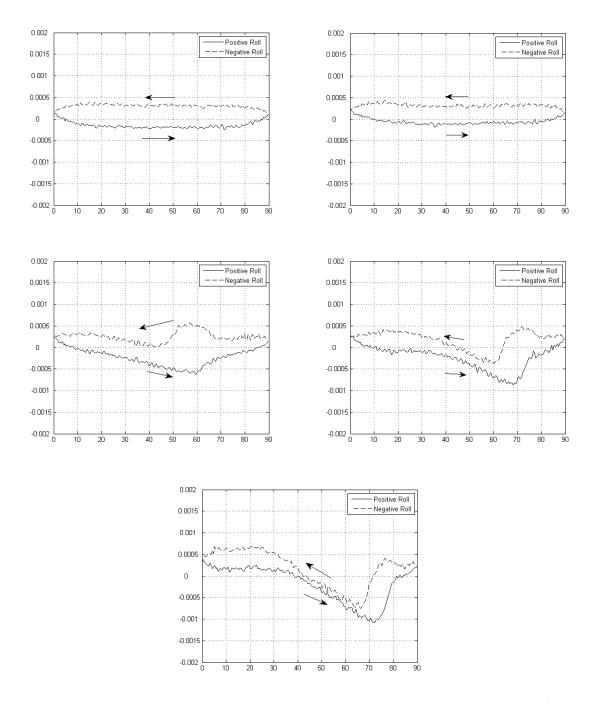


Figure 31. Rolling Moment Coefficient for $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\phi=0^\circ\text{-}90^\circ$, Top Left $\alpha=0^\circ$, Top Right $\alpha=5^\circ$, Middle Left $\alpha=10^\circ$, Middle Right $\alpha=15^\circ$, Bottom $\alpha=20^\circ$, $\dot{\phi}=3^\circ\text{/sec}$

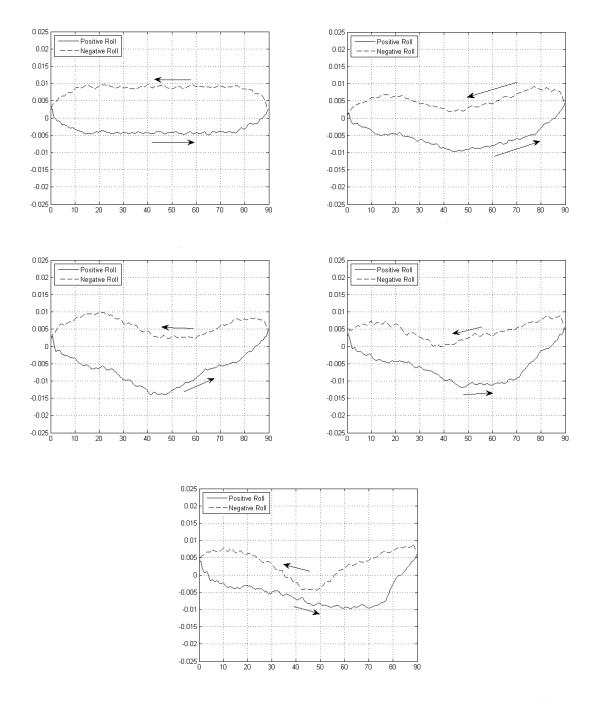


Figure 32. Rolling Moment Coefficient for $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\phi=0^\circ\text{-}90^\circ$, Top Left $\alpha=0^\circ$, Top Right $\alpha=5^\circ$, Middle Left $\alpha=10^\circ$, Middle Right $\alpha=15^\circ$, Bottom $\alpha=20^\circ$, $\dot{\phi}=7^\circ\text{/sec}$

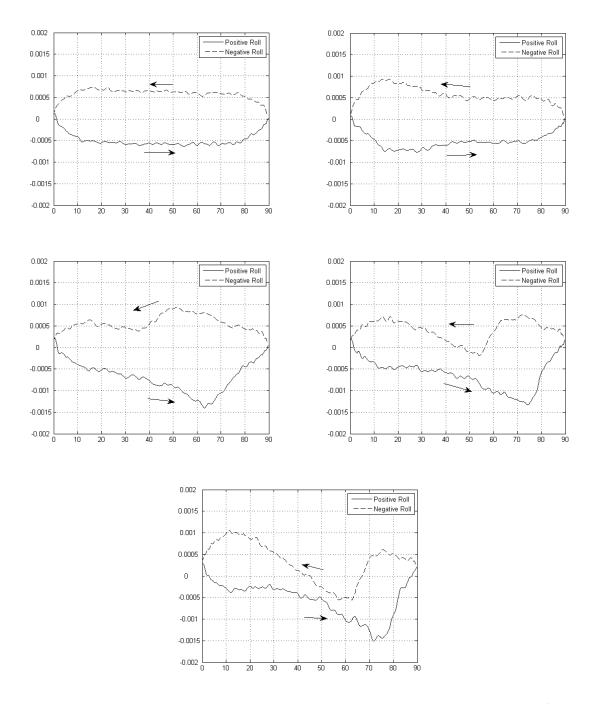


Figure 33. Rolling Moment Coefficient for $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\phi=0^\circ\text{-}90^\circ$, Top Left $\alpha=0^\circ$, Top Right $\alpha=5^\circ$, Middle Left $\alpha=10^\circ$, Middle Right $\alpha=15^\circ$, Bottom $\alpha=20^\circ$, $\dot{\phi}=7^\circ\text{/sec}$

IV. CONCLUDING REMARKS

This study provided a detailed look at the aerodynamic coefficients that are developed by a maneuvering UCAV 1303. The flow around a UCAV while in steady, level flight for a tailless UCAV is well understood and can be found in literature, however, this is the first time that such knowledge has been obtained for an air wing while performing rapid maneuvers. It was attempted through this investigation to show a more complete picture about the forces and moments that are experienced by a UCAV 1303 during maneuvering flight conditions.

It was shown that unsteady motion aids in achieving stall delay. Similar results were seen for the model both in a pitching motion and in a rolling motion. It was found that, as the airplane maneuvers faster, the onset of stall is delayed. This is supported by the flow visualization studies that have been performed previously. The study also showed what was seen previously in visualization work in that at higher angles of attack, the airfoil begins to exhibit unsteadiness and so unsteady forces even in steady flow, possibly attributed to recirculating flow regions caused by flow separation and an increase in pressure fluctuations.

Through this investigation, it became clear that cycle to cycle variations in flow events are always present. Since a UCAV will need to perform evasive maneuvers only once at a time, this is not a major concern. We have a large experimental data base of the aerodynamic loads on a maneuvering UCAV 1303 model now. The changes observed were large, but it appeared that the rates of change were not unusual. However, it has to be investigated by calculating stability derivatives. The high resolution data in hand should enable this to be completed for a clearer picture about these critical aspects of its flight mechanics

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APPENDIX A. FORCE AND MOMENT DISTRIBUTIONS FOR VARIOUS TEST CASES STUDIED

A. STATIC AERODYNAMIC COEFFICIENTS, PITCH

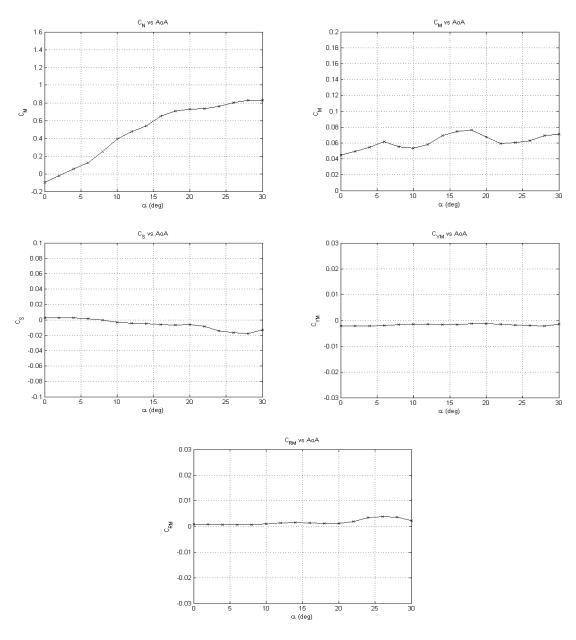


Figure 34. Static Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 0^{\circ}-30^{\circ}$

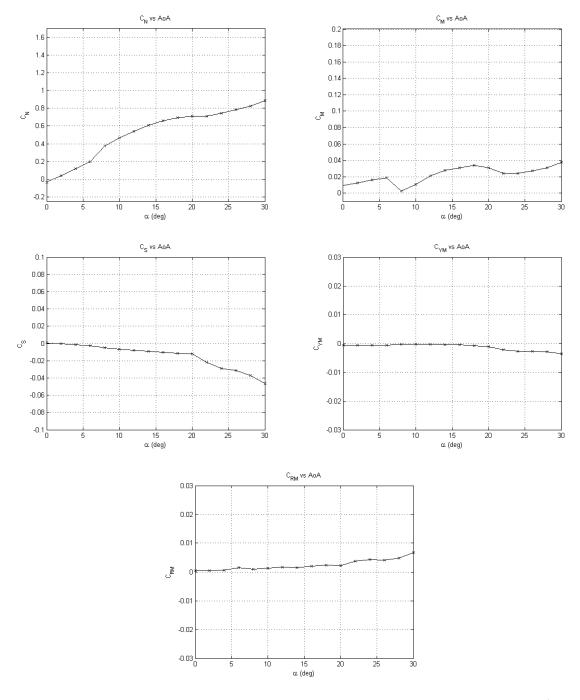


Figure 35. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}\text{-}30^{\circ}$

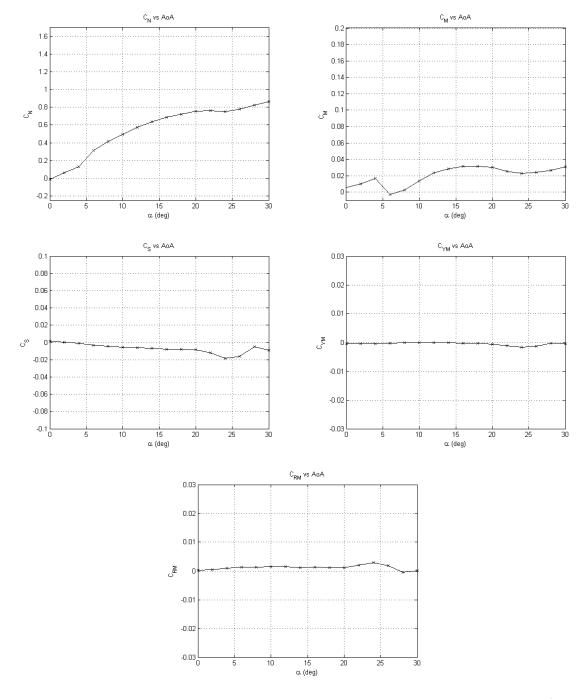


Figure 36. Static Aerodynamic Coefficients, $U_{\infty}=14$ [in/sec], $Re=2.94x10^4$, $\alpha=0^{\circ}\text{-}30^{\circ}$

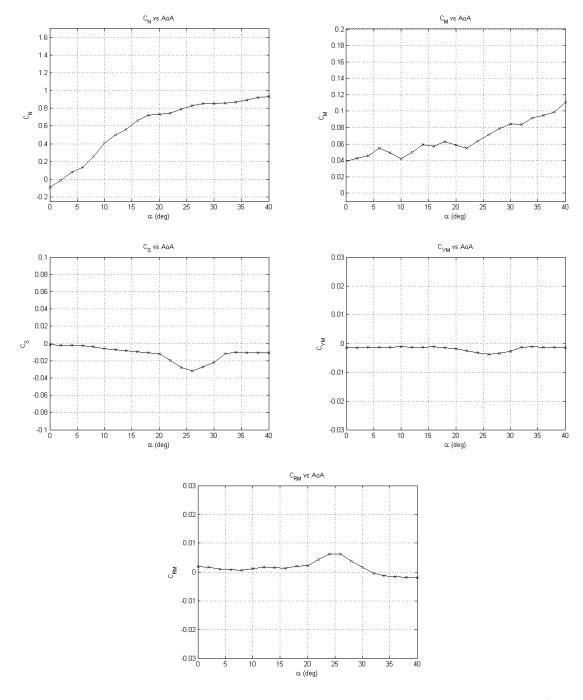


Figure 37. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}\text{-}40^{\circ}$

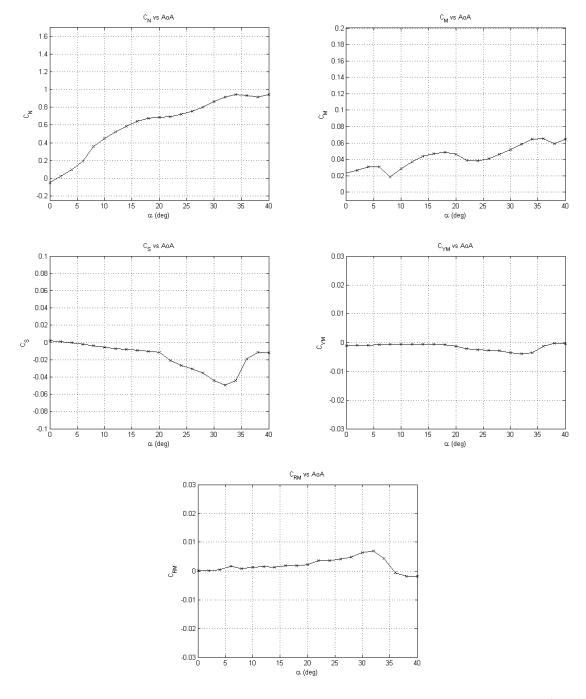


Figure 38. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}\text{-}40^{\circ}$

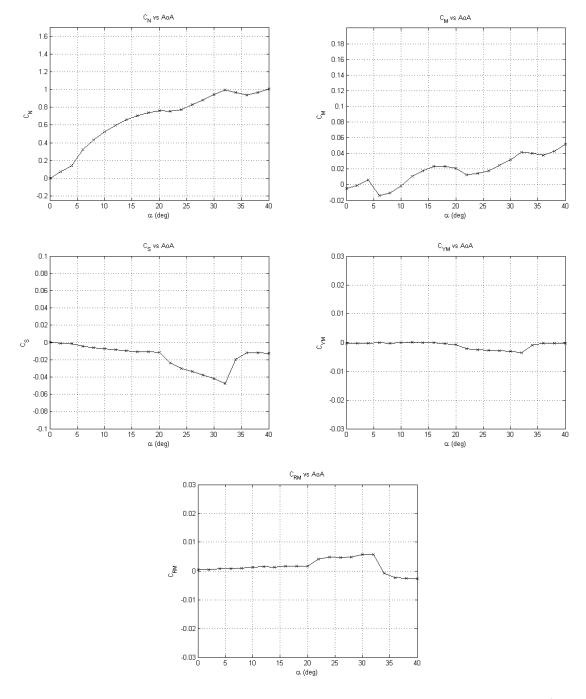


Figure 39. Static Aerodynamic Coefficients, $U_{\infty}=14$ [in/sec], $Re=2.94x10^4$, $\alpha=0^{\circ}\text{-}40^{\circ}$

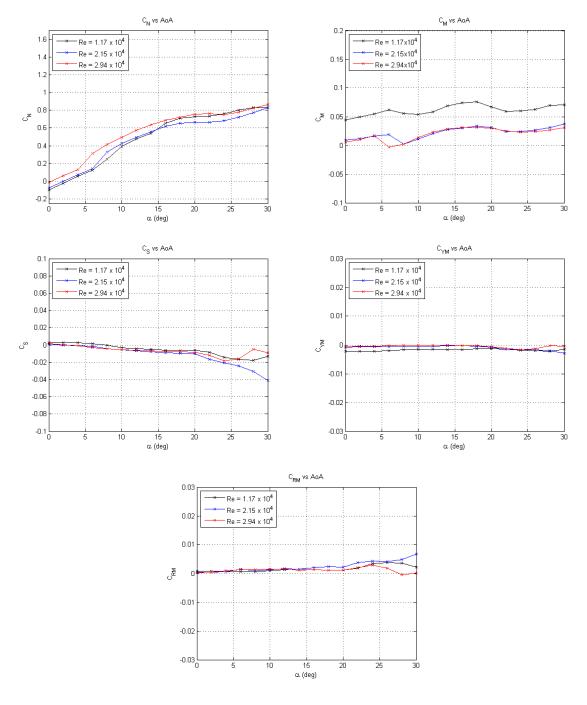


Figure 40. Static Aerodynamic Coefficients, Reynolds Number Effects, $\alpha = 0^{\circ}-30^{\circ}$

B. STATIC AERODYNAMIC COEFFICIENTS, ROLL

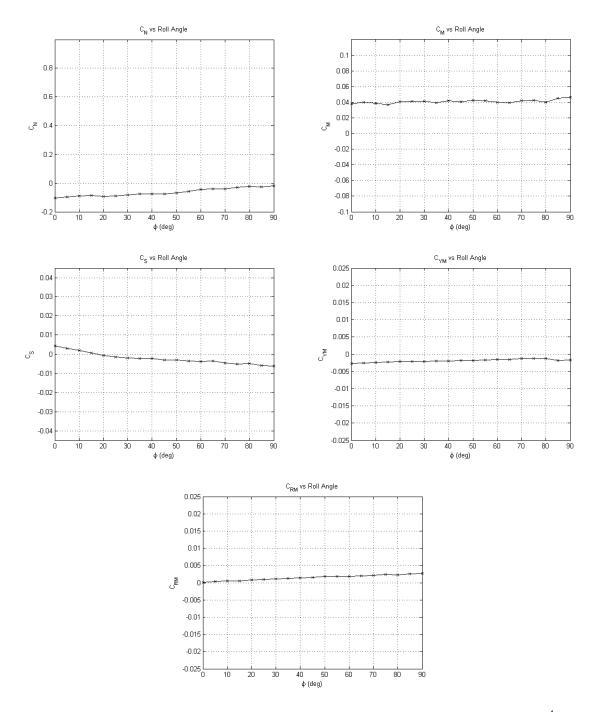


Figure 41. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ$, $\phi=0^\circ$ -90°

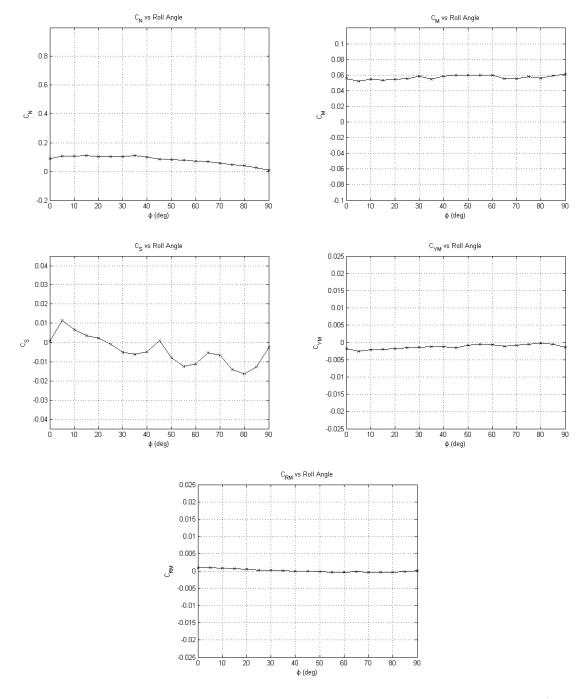


Figure 42. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^\circ$, $\varphi=0^\circ$ -90°

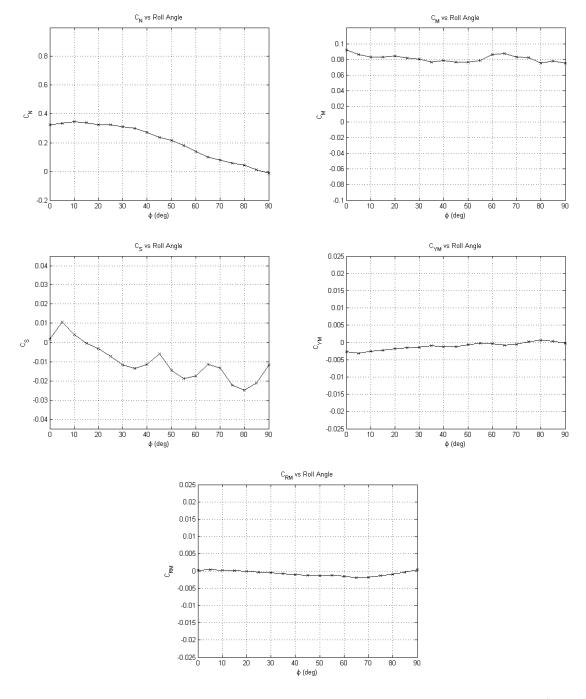


Figure 43. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ$, $\phi=0^\circ\text{-}90^\circ$

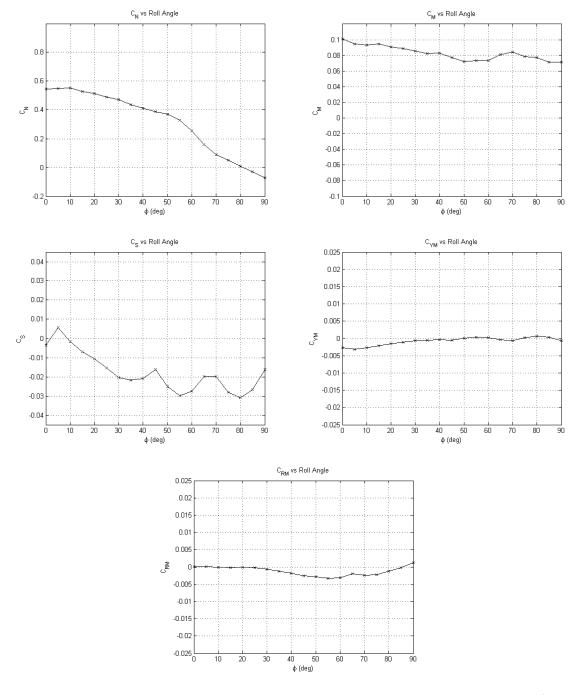


Figure 44. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ$, $\phi=0^\circ\text{-}90^\circ$

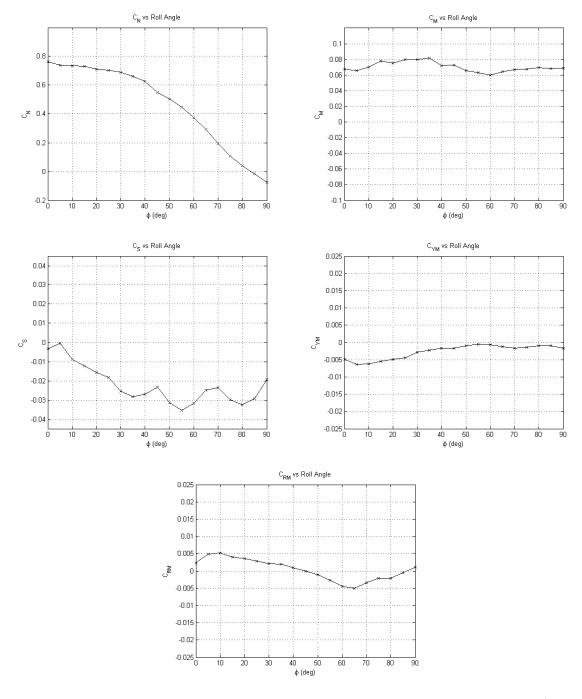


Figure 45. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ$, $\phi=0^\circ\text{-}90^\circ$

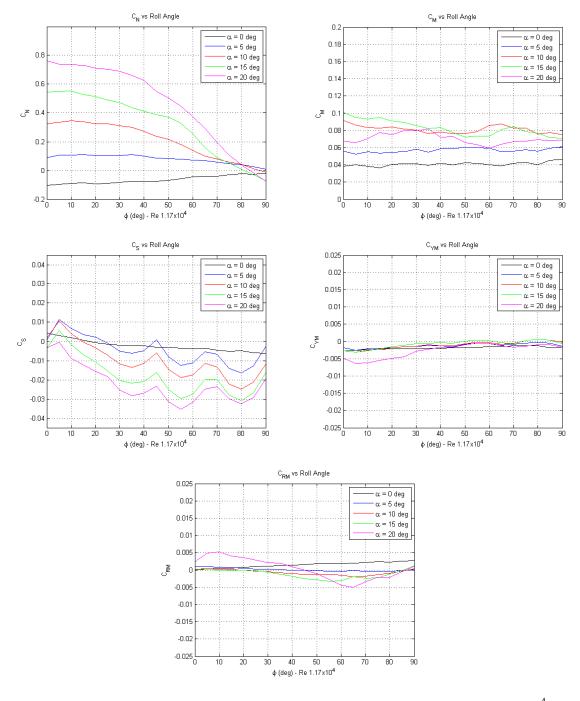


Figure 46. Static Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\varphi=0^\circ\text{-}90^\circ$, Multiple Angles of Attacks

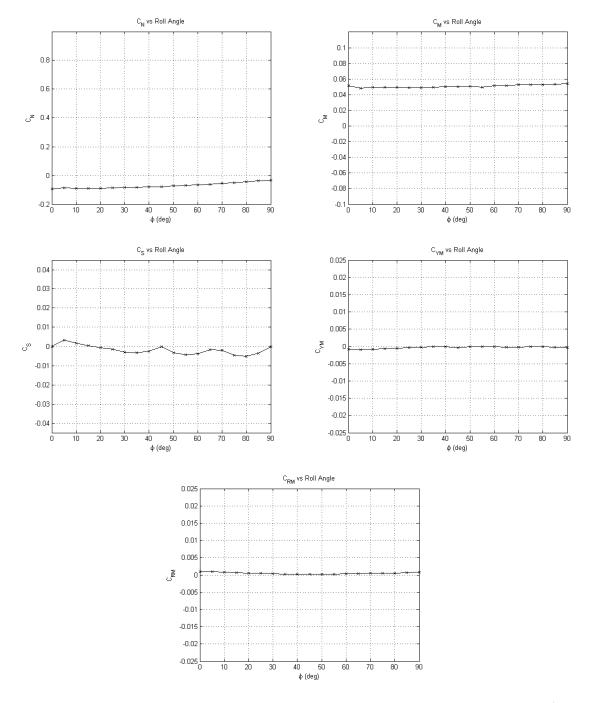


Figure 47. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^\circ$, $\phi=0^\circ$ -90°

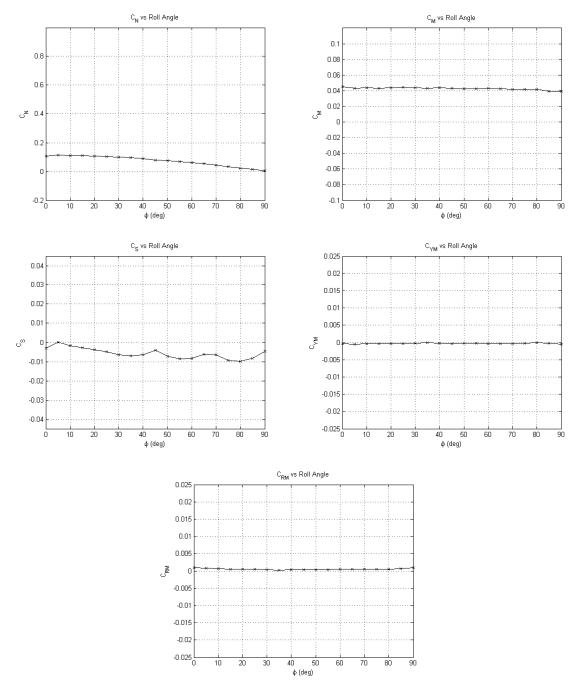


Figure 48. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ$, $\varphi=0^\circ-90^\circ$

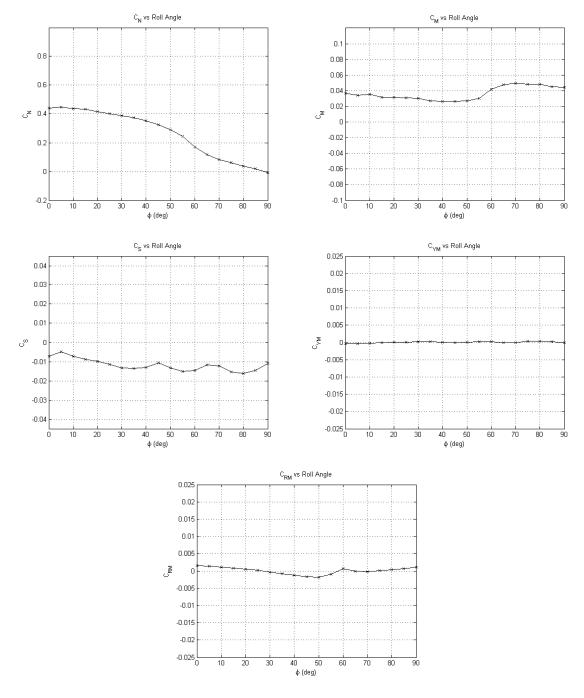


Figure 49. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ$, $\varphi=0^\circ-90^\circ$

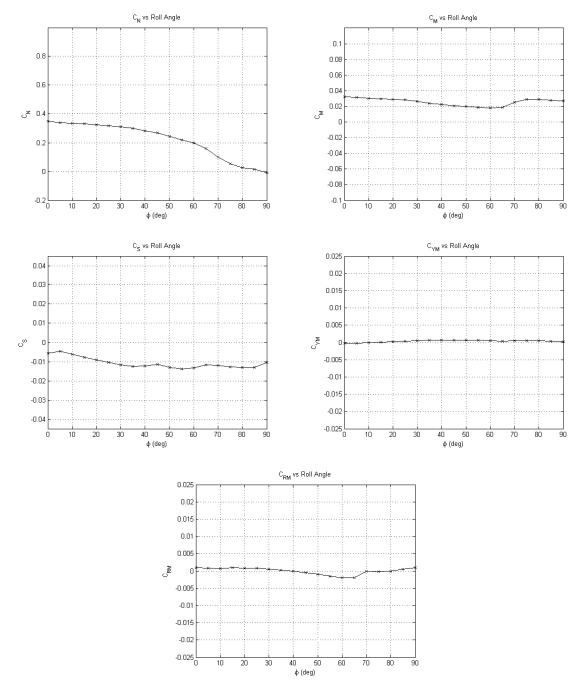


Figure 50. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ$, $\varphi=0^\circ-90^\circ$

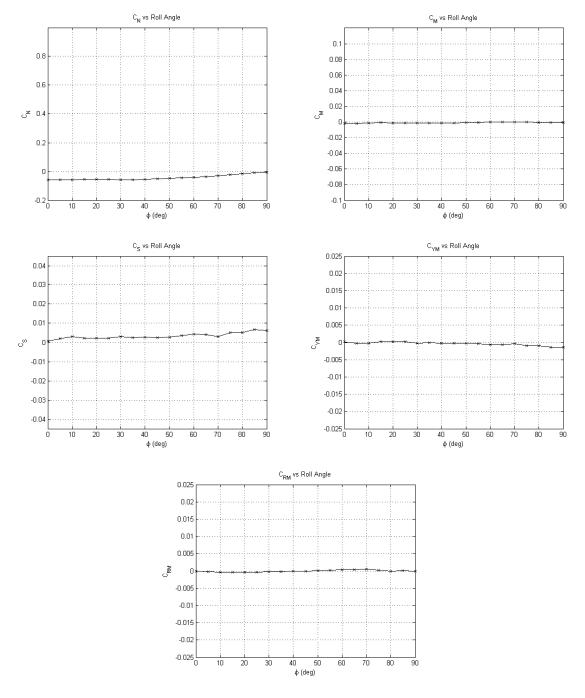


Figure 51. Static Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ$, $\varphi=0^\circ-90^\circ$

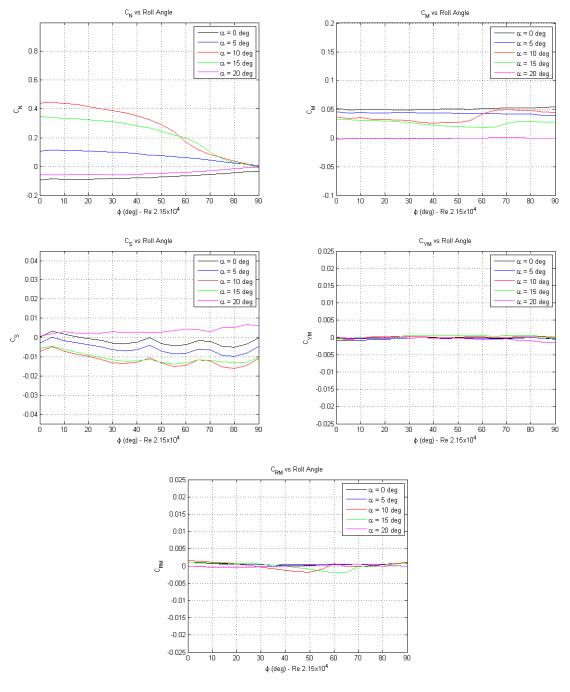


Figure 52. Static Aerodynamic Coefficients, $U_{\infty} = 10$ [in/sec], $Re = 2.15x10^4$, $\phi = 0^{\circ}-90^{\circ}$, Multiple Angles of Attacks

C. DYNAMIC AERODYNAMIC COEFFICIENTS, PITCH MANEUVERS

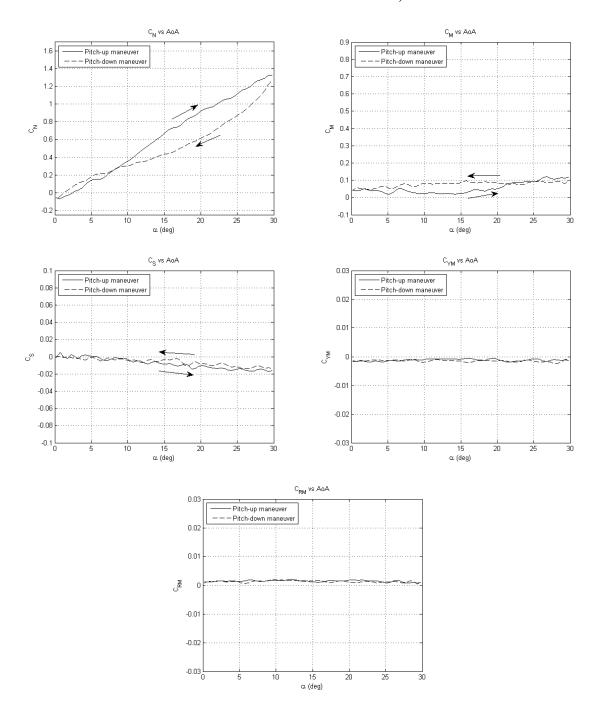


Figure 53. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}-30^{\circ}$, $\alpha^+=0.05$

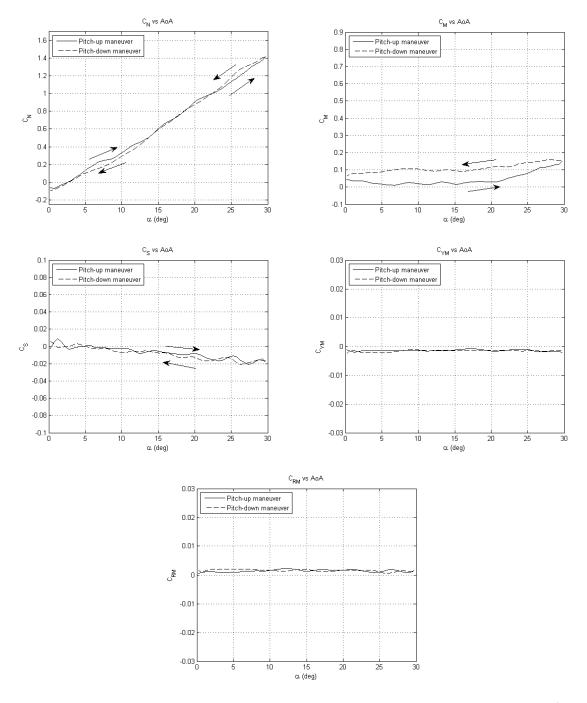


Figure 54. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}-30^{\circ}$, $\alpha^+=0.10$

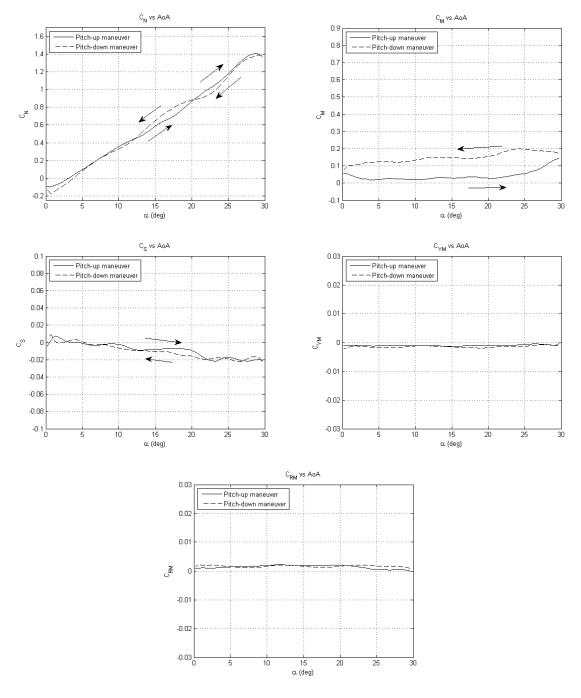


Figure 55. Dynamic Aerodynamic Coefficient, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}-30^{\circ}$, $\alpha^+=0.15$

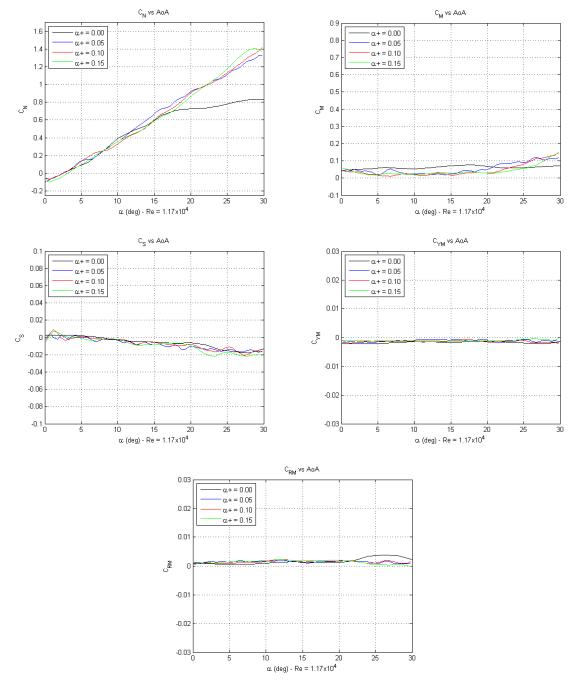


Figure 56. Dynamic Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 0^{\circ}-30^{\circ}$, Comparing α^+

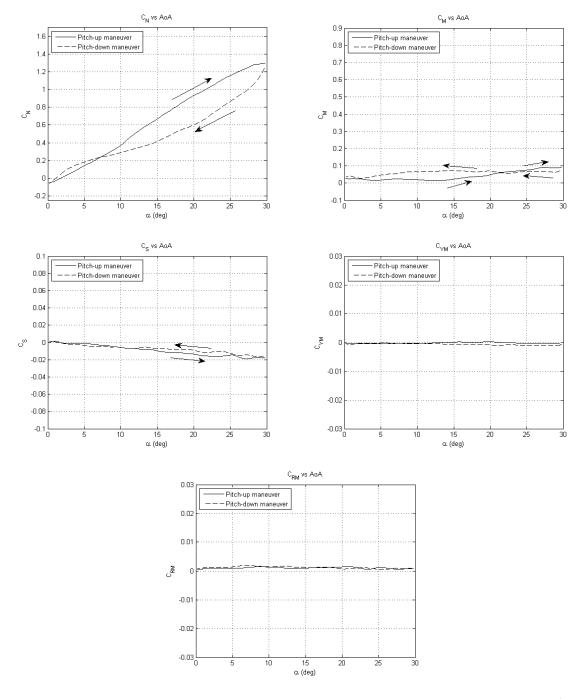


Figure 57. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}\text{--}30^{\circ}$, $\alpha^+=0.05$

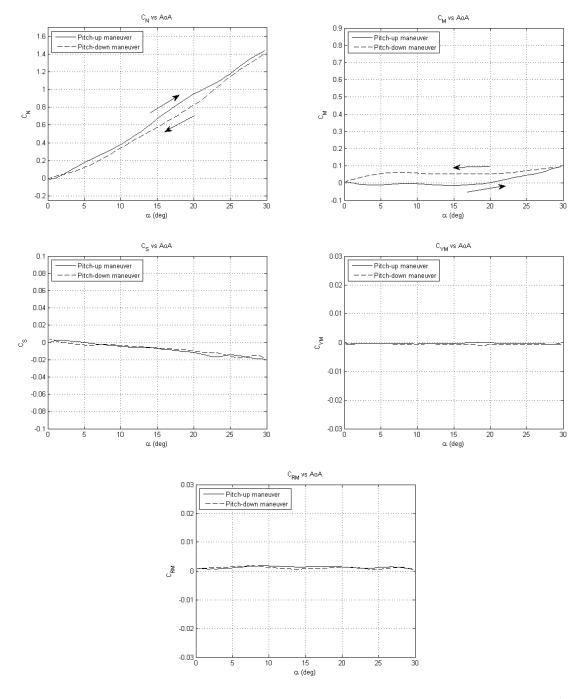


Figure 58. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}\text{--}30^{\circ}$, $\alpha^+=0.10$

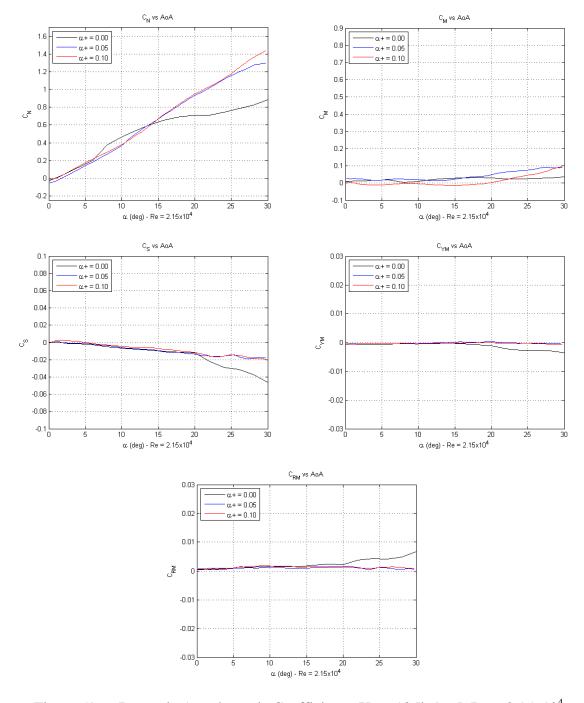


Figure 59. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}\text{--}30^{\circ}$, Compare α^+

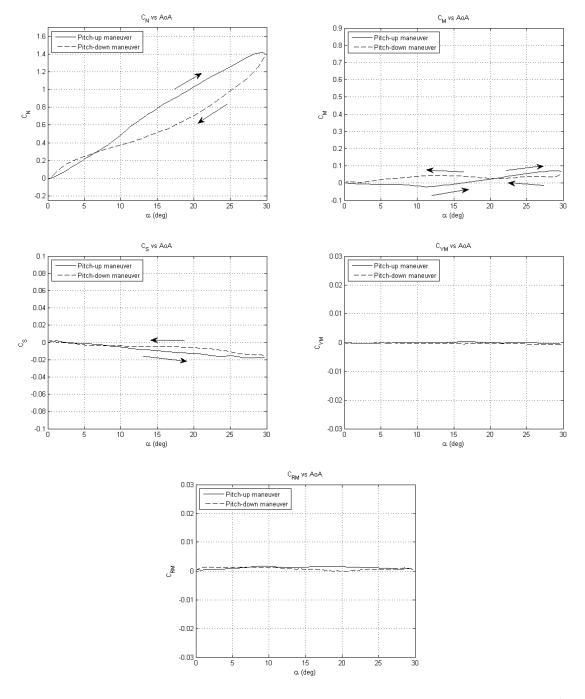


Figure 60. Dynamic Aerodynamic Coefficients, $U_{\infty}=14$ [in/sec], $Re=2.94x10^4$, $\alpha=0^{\circ}\text{--}30^{\circ}$, $\alpha^+=0.05$

D. DYNAMIC AERODYNAMIC COEFFICIENTS, ROLL MANEUVERS

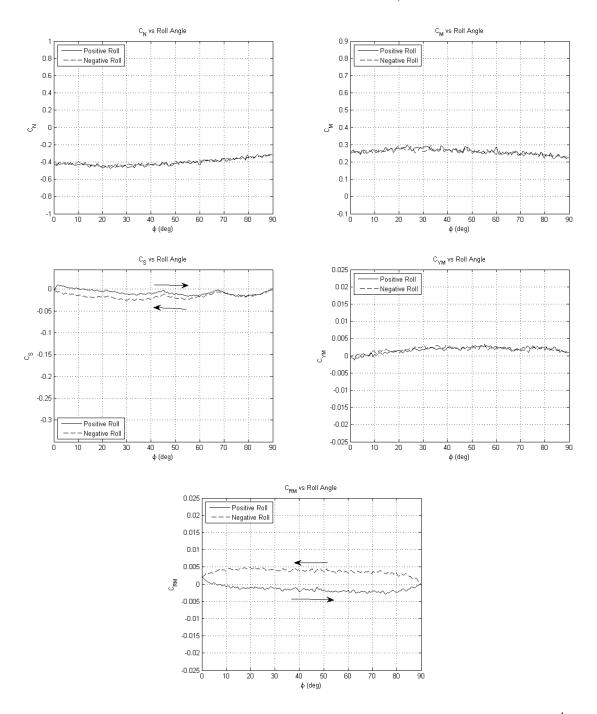


Figure 61. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=3^\circ\text{/sec}$

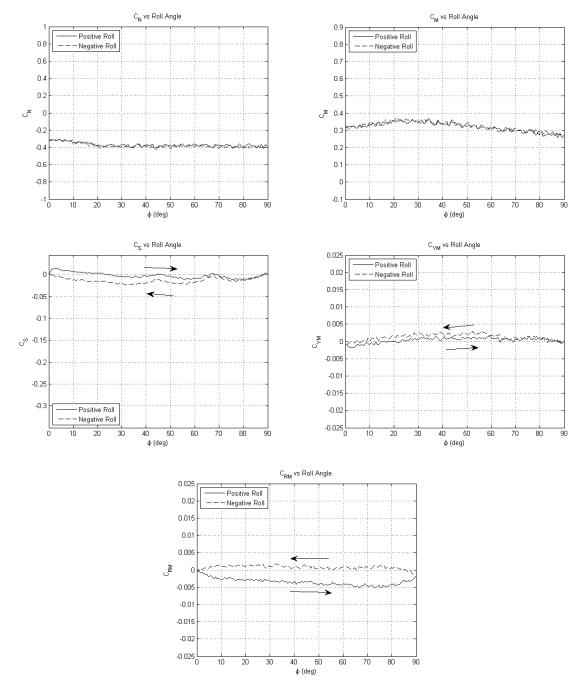


Figure 62. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=3^\circ\text{/sec}$

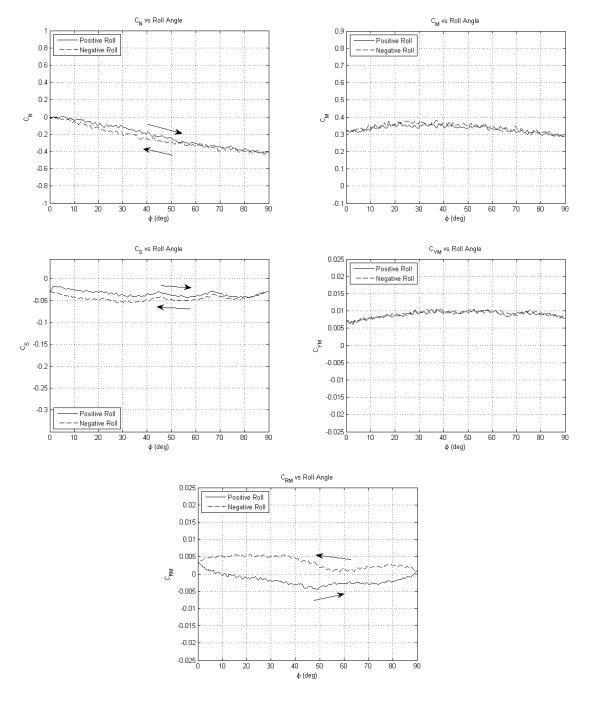


Figure 63. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

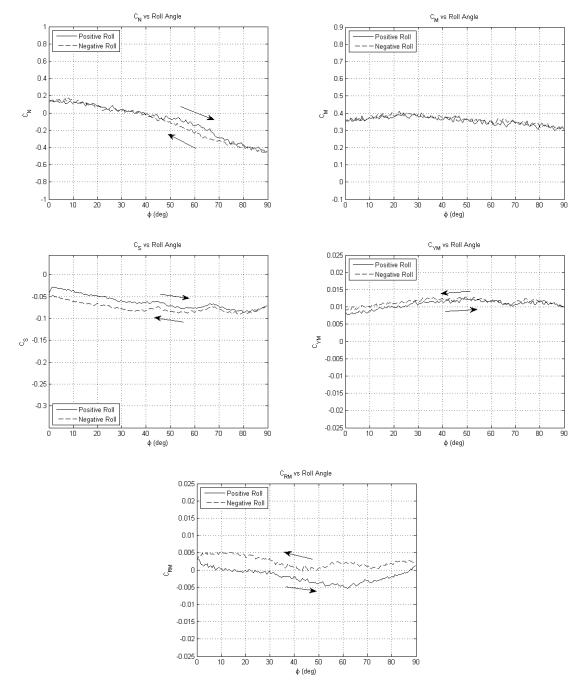


Figure 64. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

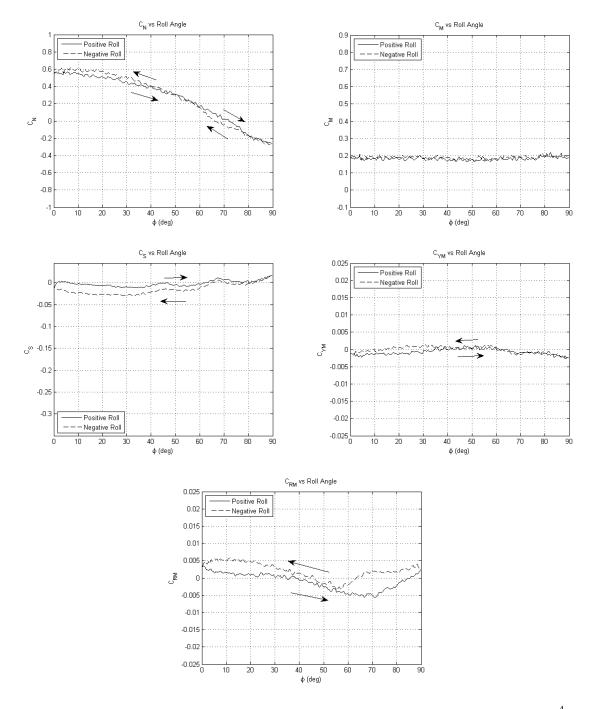


Figure 65. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

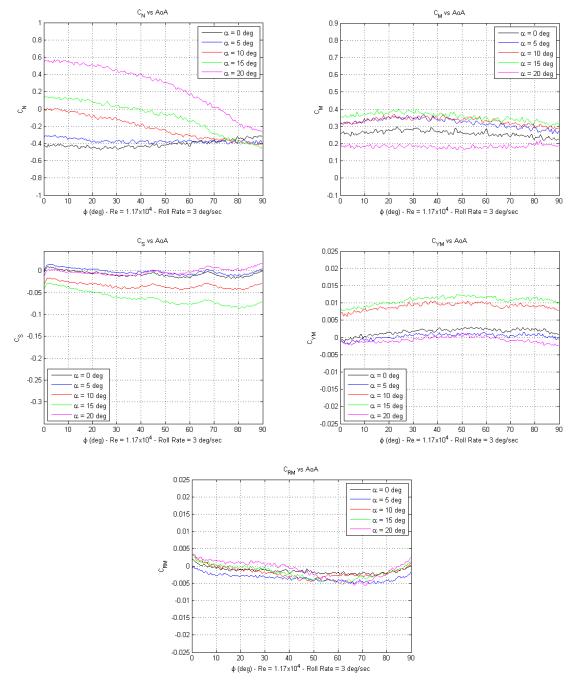


Figure 66. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, Multiple α 's, $\phi=0^{\circ}-90^{\circ}$, $\dot{\phi}=3^{\circ}/sec$

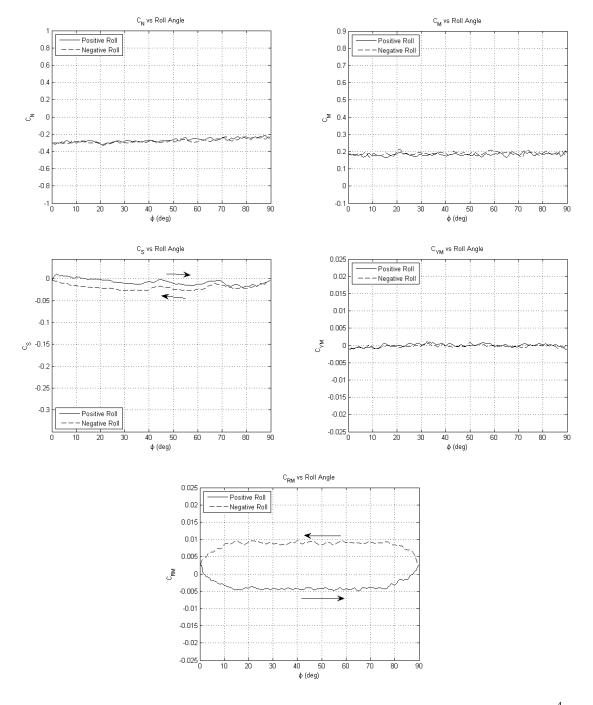


Figure 67. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=7^\circ\text{/sec}$

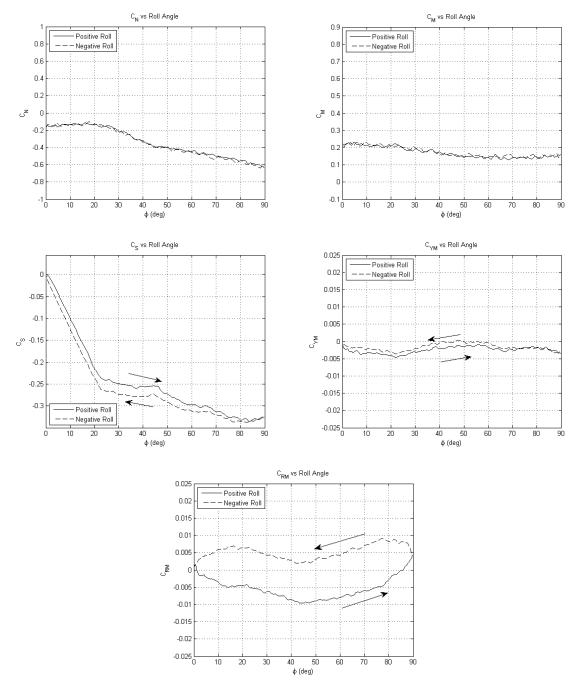


Figure 68. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=7^\circ\text{/sec}$

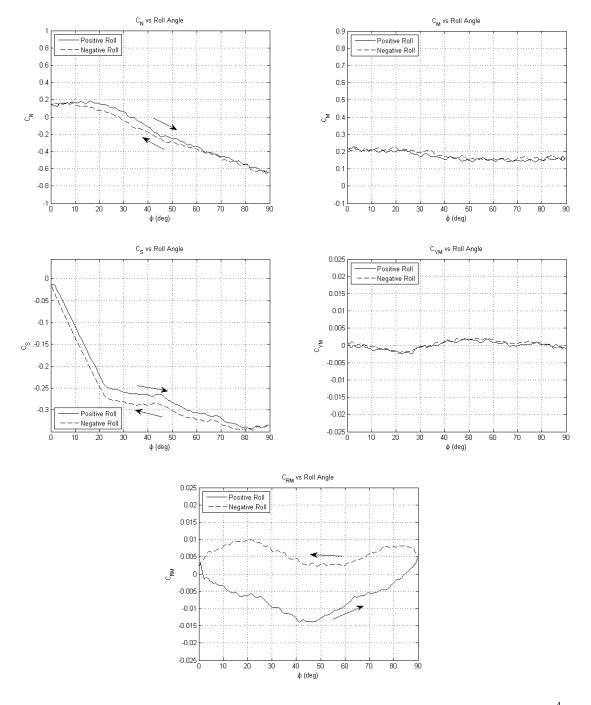


Figure 69. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

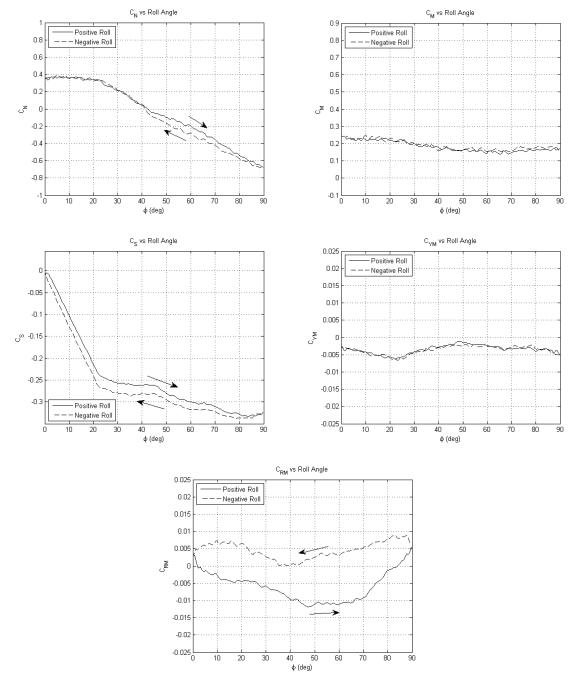


Figure 70. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

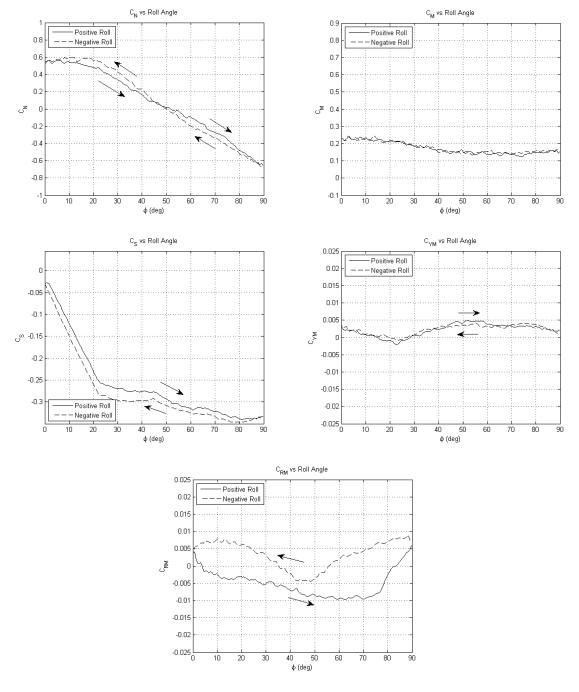


Figure 71. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

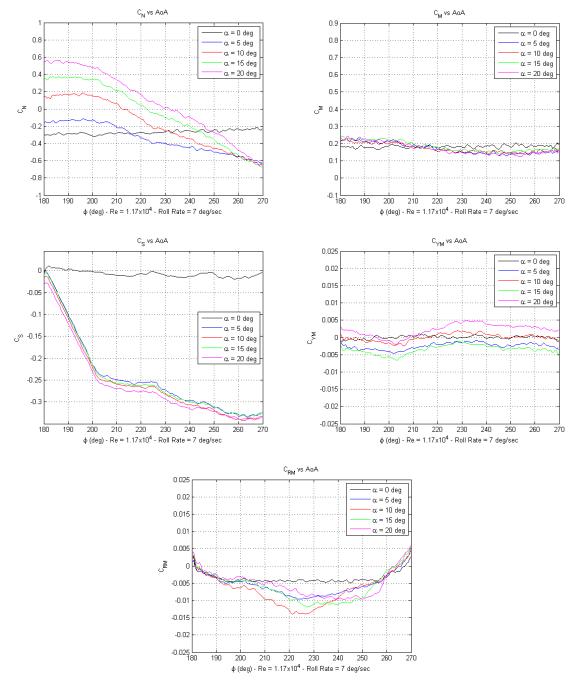


Figure 72. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, Multiple α 's, $\phi=0^{\circ}-90^{\circ}$, $\dot{\phi}=7^{\circ}/sec$

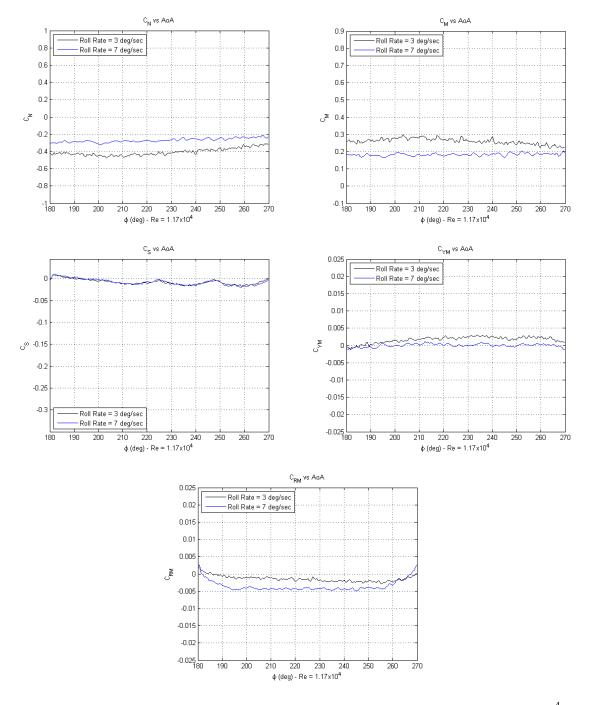


Figure 73. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}$, $\phi=0^{\circ}$ -90°, $\dot{\phi}=3^{\circ}$ /sec & 7°/sec

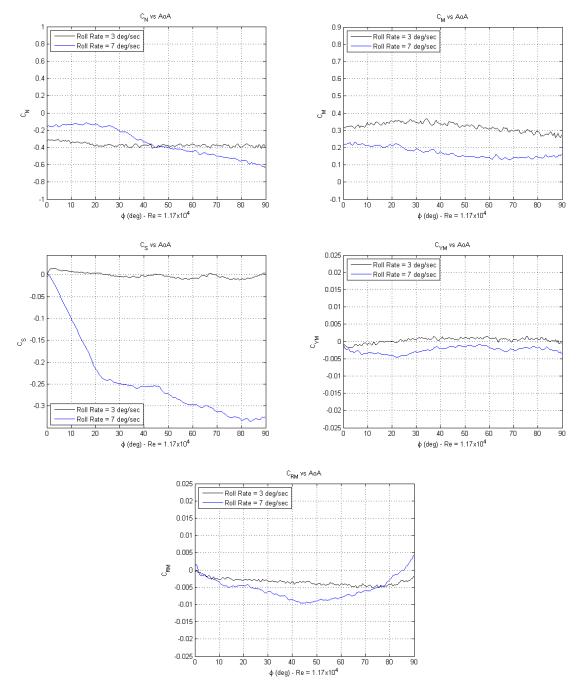


Figure 74. Dynamic Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^{\circ}$, $\phi=0^{\circ}$ -90°, $\dot{\phi}=3^{\circ}$ /sec & 7°/sec

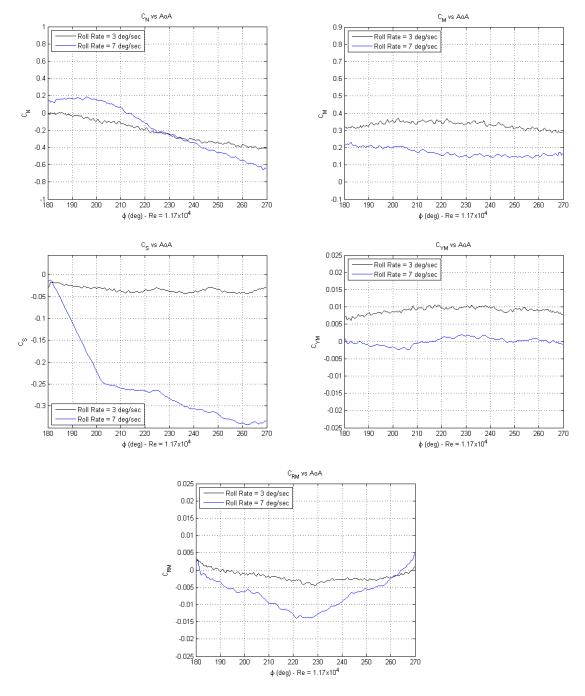


Figure 75. Dynamic Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 10^{\circ}$, $\phi = 0^{\circ}$ -90°, $\dot{\phi} = 3^{\circ}$ /sec & 7° /sec

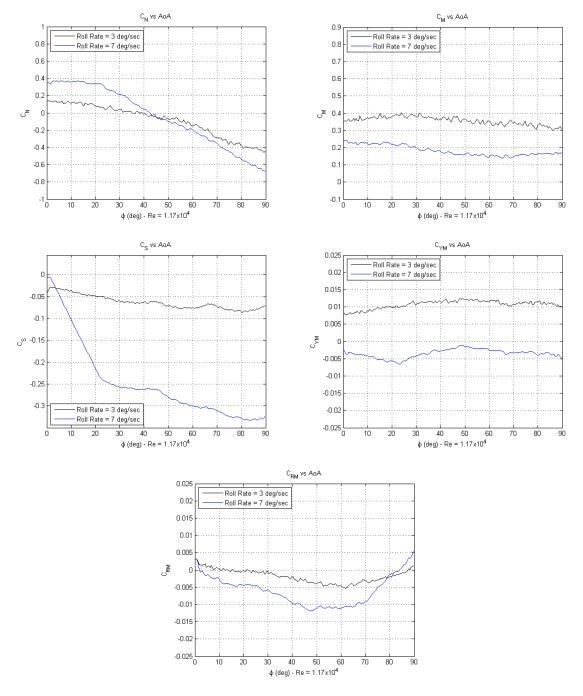


Figure 76. Dynamic Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 15^{\circ}$, $\phi = 0^{\circ}-90^{\circ}$, $\dot{\phi} = 3^{\circ}/\text{sec} \& 7^{\circ}/\text{sec}$

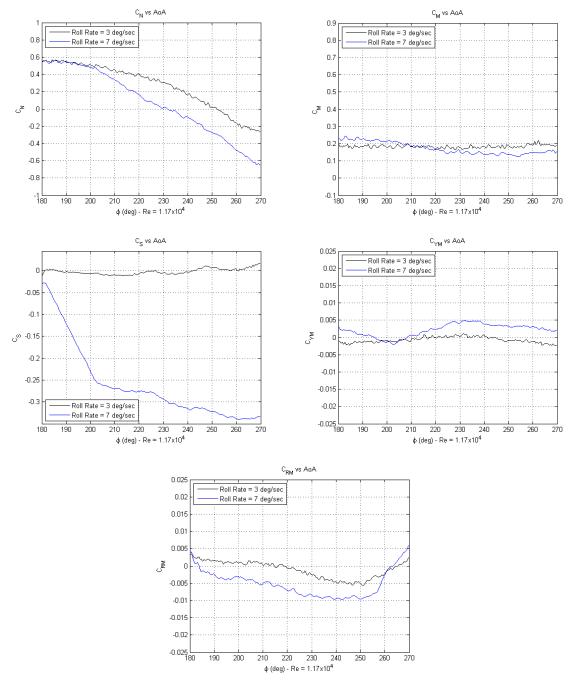


Figure 77. Dynamic Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 20^{\circ}$, $\phi = 0^{\circ}-90^{\circ}$, $\dot{\phi} = 3^{\circ}/\text{sec} \& 7^{\circ}/\text{sec}$

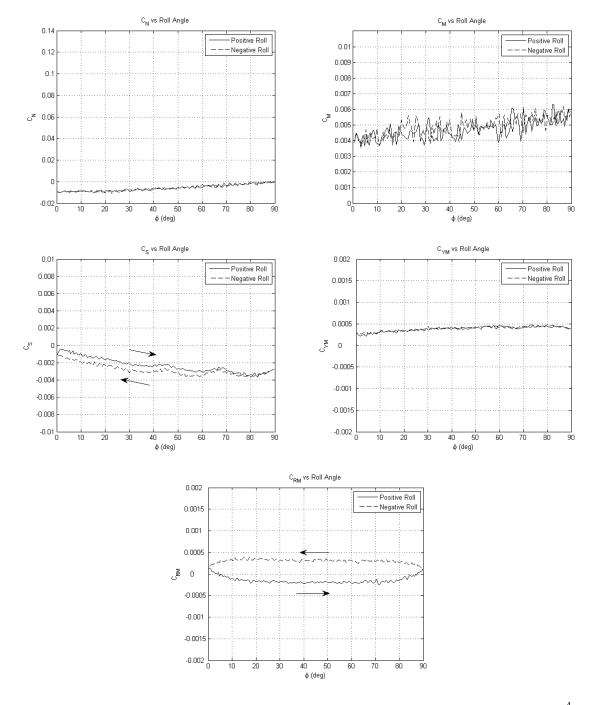


Figure 78. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ},\, \phi=0^{\circ}\text{-}90^{\circ},\, \dot{\phi}=3^{\circ}\text{/sec}$

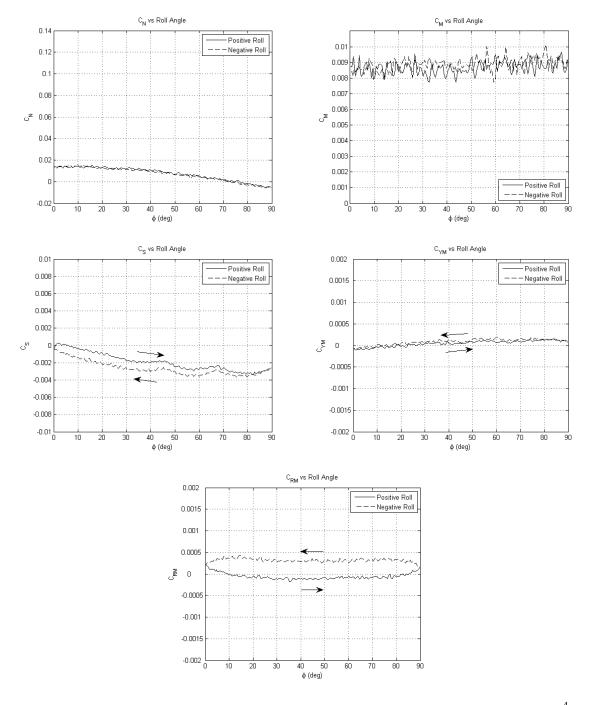


Figure 79. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=3^\circ\text{/sec}$

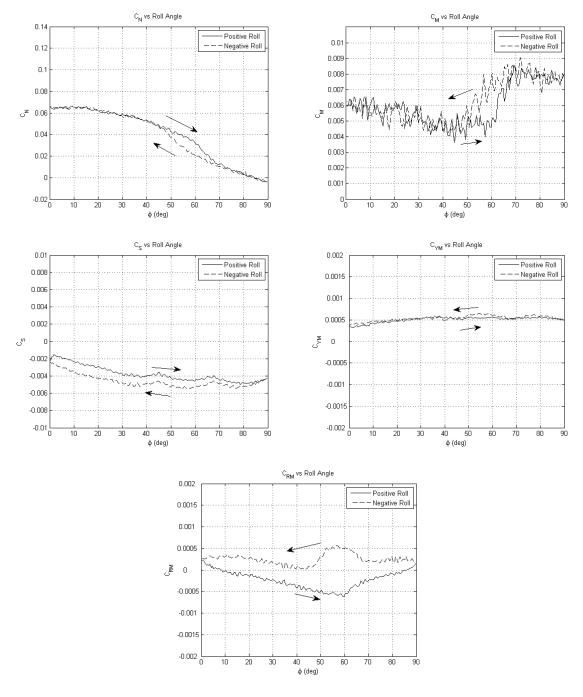


Figure 80. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

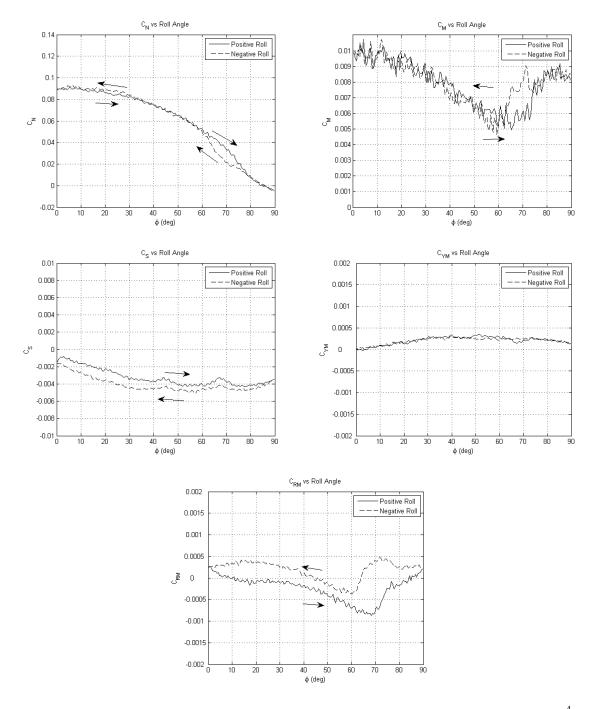


Figure 81. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

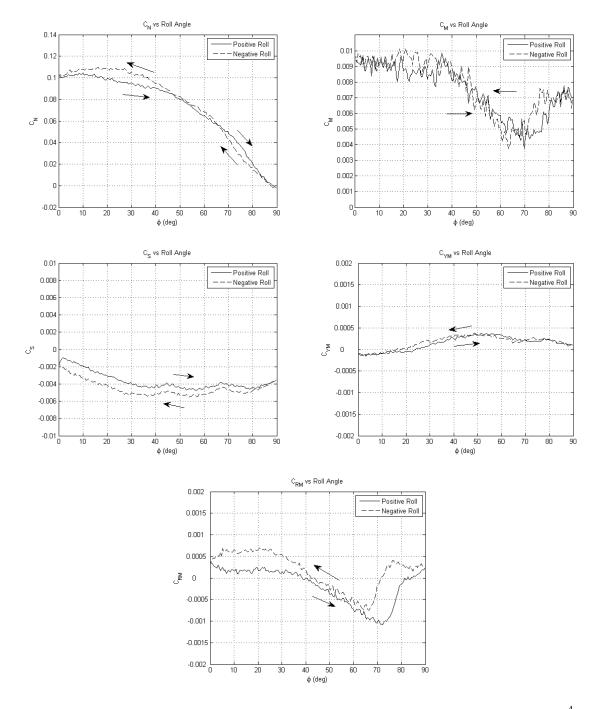


Figure 82. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec

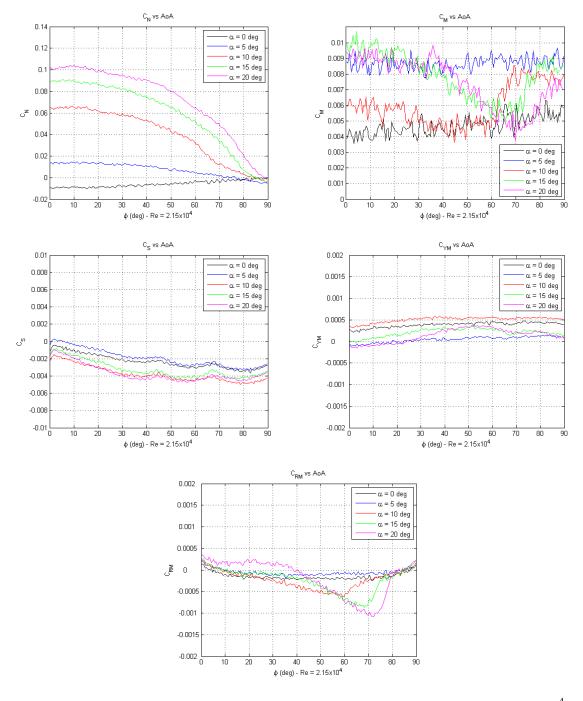


Figure 83. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, Multiple α 's, $\phi=0^{\circ}\text{-}90^{\circ}$, $\dot{\phi}=3^{\circ}\text{/sec}$

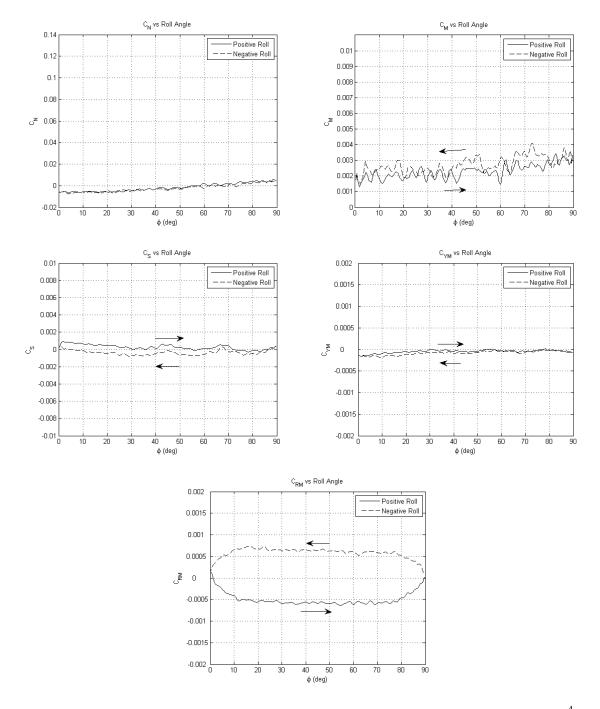


Figure 84. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ},\, \phi=0^{\circ}\text{-}90^{\circ},\, \dot{\phi}=7^{\circ}\text{/sec}$

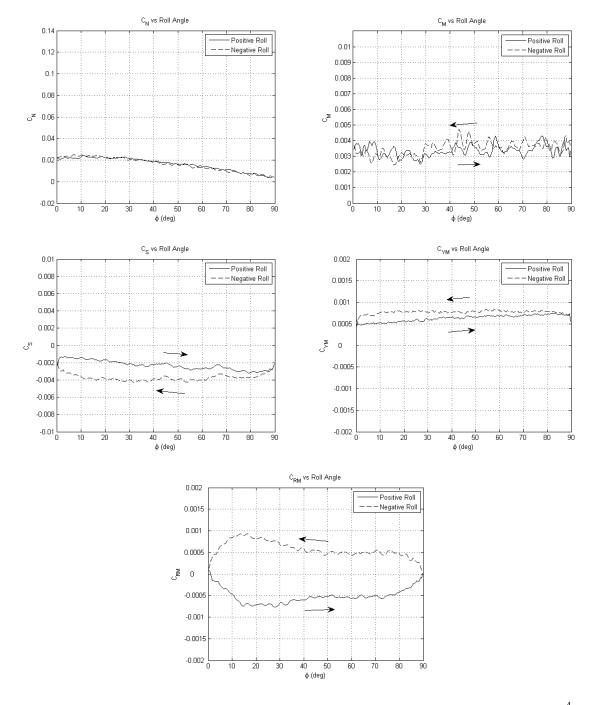


Figure 85. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ$, $\phi=0^\circ\text{-}90^\circ$, $\dot{\phi}=7^\circ\text{/sec}$

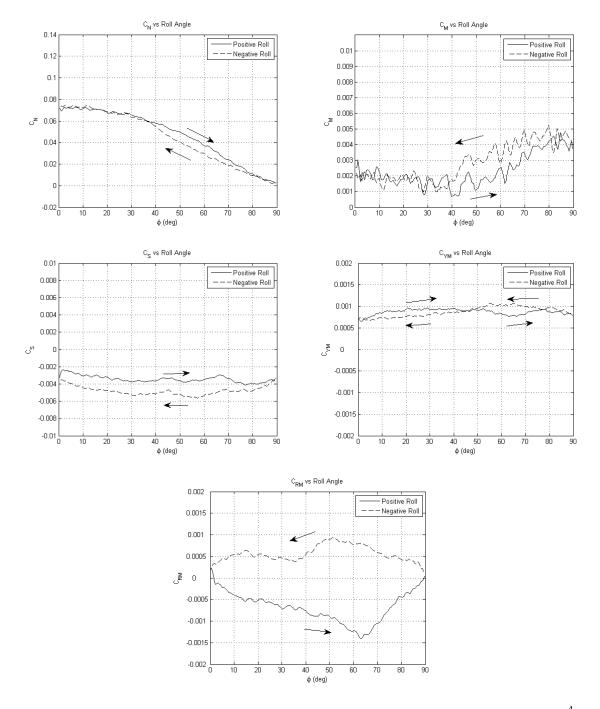


Figure 86. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

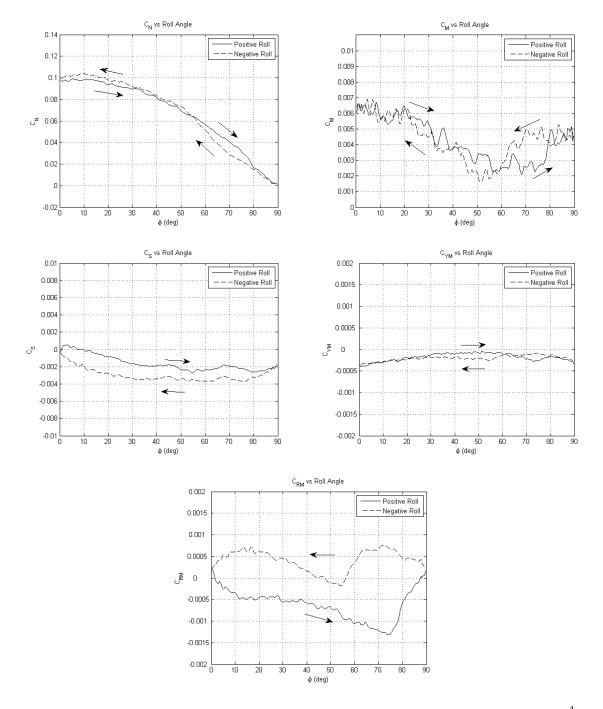


Figure 87. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

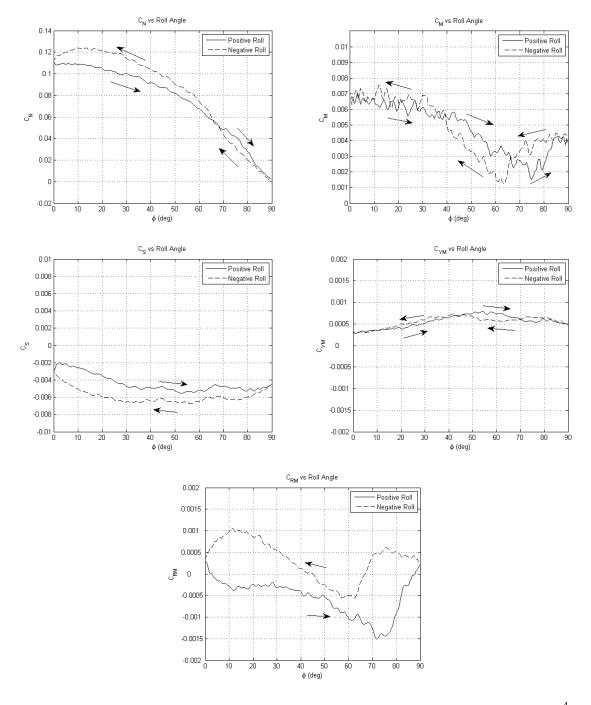


Figure 88. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=7^\circ$ /sec

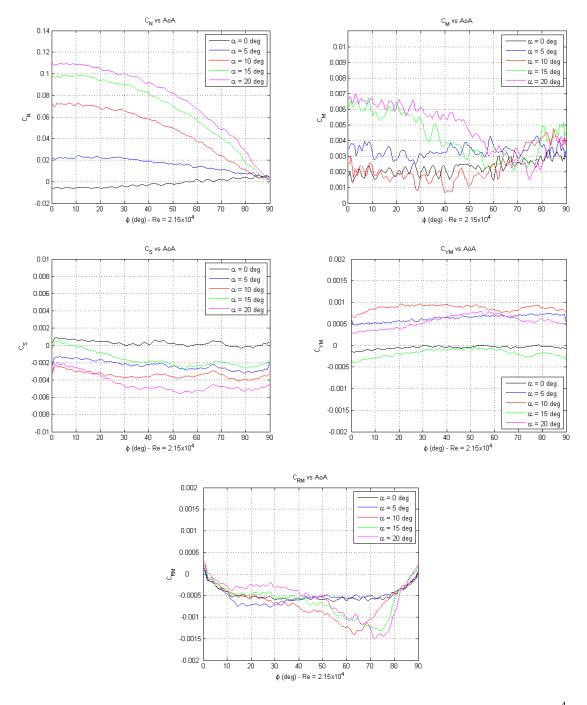


Figure 89. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, Multiple α 's, $\phi=0^{\circ}\text{-}90^{\circ}$, $\dot{\phi}=7^{\circ}\text{/sec}$

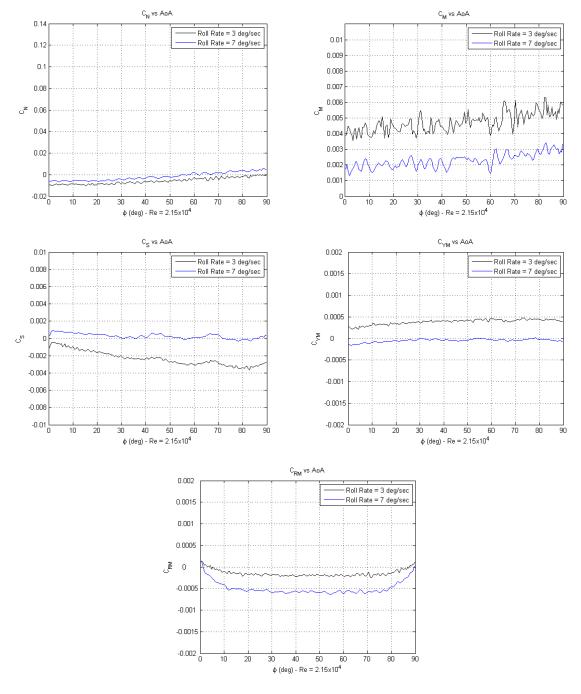


Figure 90. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^{\circ}, \, \phi=0^{\circ}\text{-}90^{\circ}, \, \dot{\phi}=3^{\circ}\text{/sec}$ & 7°/sec

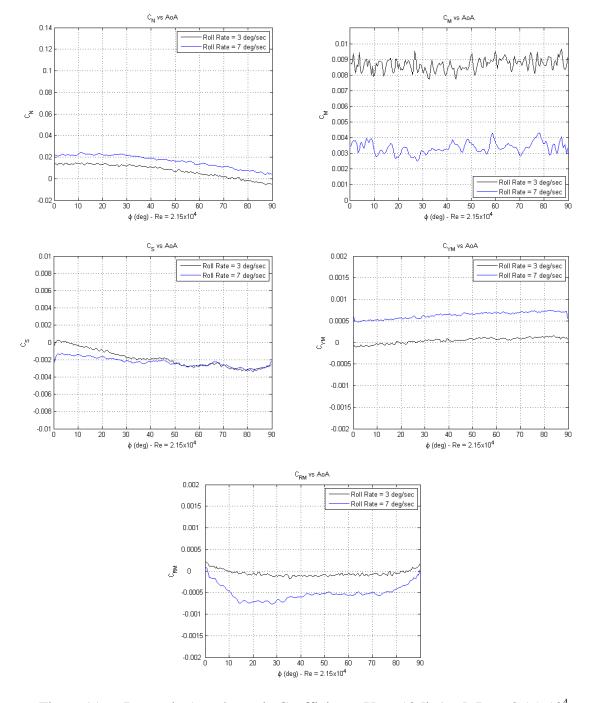


Figure 91. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec & 7° /sec

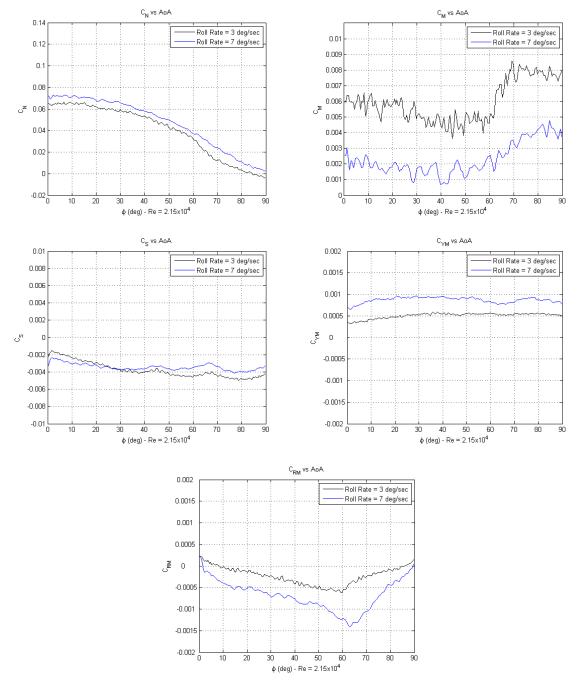


Figure 92. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^{\circ}$, $\phi=0^{\circ}$ -90°, $\dot{\phi}=3^{\circ}$ /sec & 7°/sec

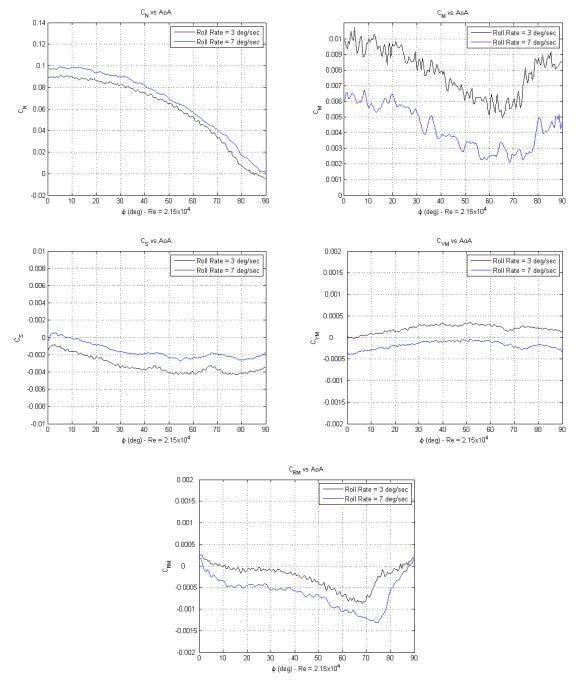


Figure 93. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^{\circ}$, $\phi=0^{\circ}$ -90°, $\dot{\phi}=3^{\circ}$ /sec & 7°/sec

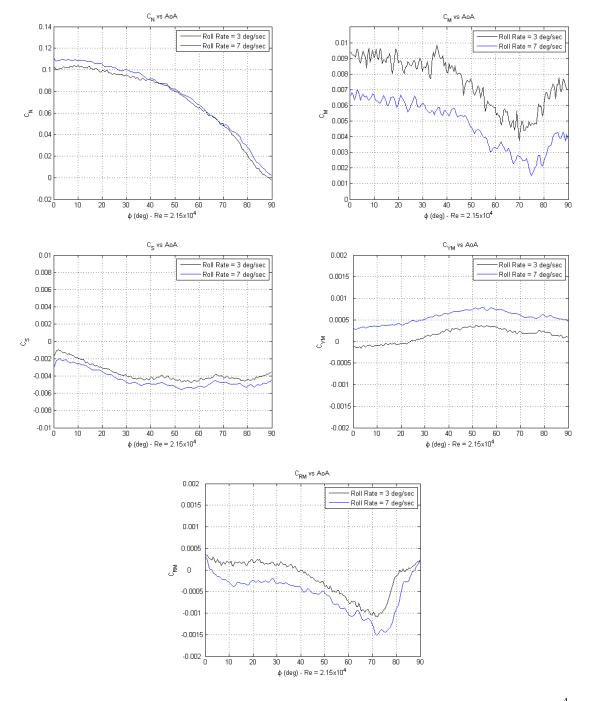


Figure 94. Dynamic Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°, $\dot{\phi}=3^\circ$ /sec & 7°/sec

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APPENDIX B. DATA TABLES WITH AERODYNAMIC COEFFICIENTS

A. STATIC AERODYNAMIC COEFFICIENTS, PITCH

	STEADY PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.09954	0.04448	0.00273	-0.00217	0.00073			
2	-0.02513	0.04924	0.00246	-0.00226	0.00081			
4	0.05640	0.05461	0.00236	-0.00216	0.00052			
6	0.12332	0.06159	0.00138	-0.00197	0.00056			
8	0.24846	0.05542	-0.00022	-0.00174	0.00064			
10	0.38967	0.05357	-0.00297	-0.00148	0.00097			
12	0.47673	0.05840	-0.00415	-0.00143	0.00126			
14	0.54085	0.06911	-0.00498	-0.00161	0.00146			
16	0.65254	0.07435	-0.00628	-0.00160	0.00138			
18	0.70984	0.07604	-0.00644	-0.00135	0.00105			
20	0.72915	0.06737	-0.00599	-0.00133	0.00118			
22	0.73361	0.05955	-0.00821	-0.00151	0.00182			
24	0.75926	0.06028	-0.01423	-0.00187	0.00347			
26	0.80331	0.06258	-0.01648	-0.00196	0.00372			
28	0.82778	0.06950	-0.01770	-0.00222	0.00366			
30	0.827634	0.07098	-0.01301	-0.00145	0.00211			

Table 6. Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha = 0^{\circ}-30^{\circ}$

	STEADY PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.03425	0.00933	0.00059	-0.00065	0.00044			
2	0.040619	0.01214	-0.00050	-0.00065	0.00040			
4	0.116348	0.01620	-0.00139	-0.00063	0.00063			
6	0.198369	0.01882	-0.00265	-0.00062	0.00143			
8	0.376300	0.00249	-0.00508	-0.00033	0.00095			
10	0.467850	0.01075	-0.00671	-0.00032	0.00135			
12	0.542270	0.02095	-0.00814	-0.00030	0.00163			
14	0.607057	0.02794	-0.00885	-0.00035	0.00140			
16	0.661494	0.03069	-0.01021	-0.00047	0.00202			
18	0.695524	0.03420	-0.01122	-0.00077	0.00239			
20	0.710977	0.03106	-0.01186	-0.00119	0.00217			
22	0.713364	0.02381	-0.02194	-0.00213	0.00378			
24	0.747608	0.02387	-0.02881	-0.00263	0.00433			
26	0.783538	0.02695	-0.03156	-0.00276	0.00404			
28	0.826964	0.03083	-0.03725	-0.00297	0.00488			
30	0.886150	0.03741	-0.04635	-0.00365	0.00680			

Table 7. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^\circ\text{--}30^\circ$

	STEADY PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.01441	0.00583	0.001353	-0.00035	0.00032			
2	0.06155	0.00967	0.000327	-0.00037	0.00039			
4	0.12717	0.01685	-0.00080	-0.00035	0.00099			
6	0.31142	-0.00277	-0.00306	-0.00021	0.00125			
8	0.41339	0.00237	-0.00446	-0.00014	0.00137			
10	0.49614	0.01340	-0.00559	-0.00016	0.00149			
12	0.57111	0.02319	-0.00636	-0.00015	0.00144			
14	0.63530	0.02813	-0.00674	-0.00016	0.00108			
16	0.68548	0.03122	-0.00793	-0.00021	0.00139			
18	0.72361	0.03123	-0.00789	-0.00027	0.00110			
20	0.75827	0.03047	-0.00840	-0.00053	0.00116			
22	0.76082	0.02531	-0.01209	-0.00114	0.00206			
24	0.75181	0.02286	-0.01859	-0.00168	0.00287			
26	0.77971	0.02433	-0.01600	-0.00126	0.00178			
28	0.82235	0.02647	-0.00521	-0.00017	-0.00037			
30	0.86709	0.03076	-0.00882	-0.00046	0.00008			

Table 8. Aerodynamic Coefficients, $U_{\infty}=14$ [in/sec], $Re=2.94x10^4$, $\alpha=0^\circ\text{--}30^\circ$

	STEADY PITCH-UP $\alpha = 0^{\circ}-40^{\circ}$							
α (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.09267	0.03893	-0.00153	-0.00145	0.00182			
2	-0.01286	0.04249	-0.00192	-0.00156	0.00172			
4	0.07516	0.04531	-0.00219	-0.00138	0.00104			
6	0.13771	0.05457	-0.00286	-0.00133	0.00076			
8	0.25625	0.04899	-0.00380	-0.00123	0.00056			
10	0.40771	0.04203	-0.00595	-0.00120	0.00120			
12	0.49779	0.04978	-0.00734	-0.00124	0.00160			
14	0.56406	0.05889	-0.00824	-0.00138	0.00145			
16	0.65844	0.05717	-0.00969	-0.00114	0.00128			
18	0.72061	0.06247	-0.01069	-0.00144	0.00197			
20	0.73584	0.05835	-0.01203	-0.00179	0.00226			
22	0.74589	0.05486	-0.01943	-0.00255	0.00423			
24	0.78944	0.06338	-0.02793	-0.00322	0.00619			
26	0.83193	0.07165	-0.03184	-0.00369	0.00622			
28	0.85551	0.07889	-0.02718	-0.00334	0.00381			
30	0.85478	0.08451	-0.02174	-0.00272	0.00160			
32	0.86012	0.08386	-0.01220	-0.00132	-0.00051			
34	0.86828	0.09148	-0.01035	-0.00120	-0.00127			
36	0.89052	0.09483	-0.01068	-0.00137	-0.00162			
38	0.92283	0.09920	-0.01076	-0.00138	-0.00187			
40	0.93439	0.11089	-0.01092	-0.00154	-0.00200			

Table 9. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^{\circ}-40^{\circ}$

	STEADY PITCH-UP $\alpha = 0^{\circ}-40^{\circ}$							
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.05183	0.023141	0.00221	-0.00105	0.00012			
2	0.02177	0.026591	0.00080	-0.00102	0.00016			
4	0.09651	0.030857	-0.00012	-0.00095	0.00044			
6	0.19009	0.030895	-0.00190	-0.00078	0.00173			
8	0.35836	0.018622	-0.00393	-0.00064	0.00081			
10	0.45036	0.028430	-0.00553	-0.00066	0.00129			
12	0.52297	0.037178	-0.00703	-0.00054	0.00142			
14	0.58480	0.043650	-0.00776	-0.00059	0.00129			
16	0.64454	0.046828	-0.00929	-0.00065	0.00176			
18	0.67446	0.048537	-0.01004	-0.00083	0.00189			
20	0.68714	0.046217	-0.01123	-0.00127	0.00217			
22	0.69490	0.038808	-0.02092	-0.00214	0.00361			
24	0.72165	0.038324	-0.02644	-0.00248	0.00366			
26	0.75826	0.040945	-0.03095	-0.00273	0.00405			
28	0.80459	0.046448	-0.03549	-0.00292	0.00477			
30	0.86745	0.051843	-0.04410	-0.00355	0.00647			
32	0.91597	0.058726	-0.04916	-0.00393	0.00692			
34	0.94455	0.064730	-0.04418	-0.00351	0.00430			
36	0.93422	0.065202	-0.01900	-0.00123	-0.00061			
38	0.91405	0.059233	-0.01158	-0.00034	-0.00185			
40	0.94538	0.064469	-0.01198	-0.00038	-0.00190			

Table 10. Aerodynamic Coefficients, $U_{\infty} = 10$ [in/sec], $Re = 2.15x10^4$, $\alpha = 0^{\circ}-40^{\circ}$

	STEADY PITCH-UP $\alpha = 0^{\circ}-40^{\circ}$							
α (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.00333	-0.00466	0.00032	-0.00028	0.00047			
2	0.07439	-0.00098	-0.00083	-0.00031	0.00038			
4	0.14252	0.00587	-0.00173	-0.00030	0.00070			
6	0.32396	-0.01402	-0.00421	-0.00013	0.00082			
8	0.43323	-0.01064	-0.00591	-0.00019	0.00095			
10	0.52137	-0.00159	-0.00749	-0.00003	0.00137			
12	0.59484	0.01045	-0.00861	0.00001	0.00156			
14	0.66048	0.01740	-0.00940	-0.00002	0.00132			
16	0.70328	0.02315	-0.01061	-0.00010	0.00170			
18	0.73682	0.02371	-0.01089	-0.00038	0.00171			
20	0.76195	0.02096	-0.01144	-0.00078	0.00159			
22	0.75542	0.01262	-0.02342	-0.00217	0.00411			
24	0.77578	0.01422	-0.03039	-0.00247	0.00474			
26	0.82960	0.01789	-0.03389	-0.00264	0.00456			
28	0.88016	0.02454	-0.03761	-0.00289	0.00483			
30	0.94344	0.03148	-0.04182	-0.00305	0.00564			
32	0.99418	0.04126	-0.04767	-0.00354	0.00573			
34	0.96952	0.04023	-0.01936	-0.00104	-0.00077			
36	0.93853	0.03743	-0.01173	-0.00018	-0.00239			
38	0.96747	0.04276	-0.01180	-0.00024	-0.00257			
40	1.00851	0.05186	-0.01234	-0.00029	-0.00272			

Table 11. Aerodynamic Coefficients, $U_{\infty} = 14$ [in/sec], $Re = 2.94 \times 10^4$, $\alpha = 0^{\circ}-40^{\circ}$

B. STATIC AERODYNAMIC COEFFICIENTS, ROLL

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.10218	0.03819	0.00443	-0.00267	0.00012			
5	-0.09750	0.04012	0.00290	-0.00250	0.00031			
10	-0.08885	0.03849	0.00189	-0.00247	0.00046			
15	-0.08674	0.03677	0.00056	-0.00227	0.00055			
20	-0.09343	0.04079	-0.00059	-0.00215	0.00076			
25	-0.09084	0.04102	-0.00138	-0.00206	0.00095			
30	-0.08252	0.04129	-0.00194	-0.00211	0.00112			
35	-0.07562	0.03958	-0.00220	-0.00194	0.00123			
40	-0.07586	0.04190	-0.00228	-0.00198	0.00142			
45	-0.07466	0.04027	-0.00302	-0.00179	0.00151			
50	-0.06669	0.04256	-0.00306	-0.00185	0.00175			
55	-0.05763	0.04204	-0.00343	-0.00163	0.00179			
60	-0.04550	0.03991	-0.00379	-0.00154	0.00185			
65	-0.04101	0.03909	-0.00362	-0.00149	0.00195			
70	-0.03891	0.04178	-0.00469	-0.00123	0.00212			
75	-0.03108	0.04277	-0.00502	-0.00130	0.00234			
80	-0.02271	0.04008	-0.00488	-0.00122	0.00229			
85	-0.02534	0.04530	-0.00579	-0.00186	0.00248			
90	-0.02098	0.04655	-0.00628	-0.00173	0.00268			

Table 12. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ$, $\phi=0^\circ-90^\circ$

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.08894	0.05568	0.00078	-0.00178	0.00098			
5	0.10647	0.05234	0.01156	-0.00255	0.00094			
10	0.10653	0.05501	0.00669	-0.00219	0.00075			
15	0.10885	0.05358	0.00347	-0.00193	0.00061			
20	0.10477	0.05478	0.00224	-0.00184	0.00055			
25	0.10402	0.05513	-0.00088	-0.00149	0.00028			
30	0.10388	0.05846	-0.00505	-0.00140	0.00027			
35	0.11080	0.05473	-0.00621	-0.00120	0.00006			
40	0.09966	0.05875	-0.00490	-0.00120	-0.0000008			
45	0.08611	0.05964	0.00096	-0.00158	-0.00004			
50	0.08416	0.05982	-0.00799	-0.00087	-0.00024			
55	0.07831	0.05996	-0.01247	-0.00047	-0.00037			
60	0.07050	0.05953	-0.01118	-0.00058	-0.00038			
65	0.06734	0.05506	-0.00526	-0.00103	-0.00027			
70	0.05644	0.05566	-0.00667	-0.00086	-0.00036			
75	0.04692	0.05778	-0.01411	-0.00051	-0.00030			
80	0.04004	0.05572	-0.01656	-0.00020	-0.00042			
85	0.02500	0.05936	-0.01289	-0.00057	-0.00019			
90	0.01012	0.06105	-0.00258	-0.00133	0.00010			

Table 13. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^\circ$, $\phi=0^\circ-90^\circ$

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.32453	0.09190	0.00173	-0.00274	0.00028			
5	0.33374	0.08616	0.01072	-0.00319	0.00035			
10	0.34440	0.08310	0.00413	-0.00261	0.00023			
15	0.33866	0.08275	-0.00040	-0.00225	0.00003			
20	0.32585	0.08416	-0.00332	-0.00184	-0.00012			
25	0.32340	0.08170	-0.00728	-0.00150	-0.00034			
30	0.31180	0.08049	-0.01172	-0.00138	-0.00047			
35	0.29840	0.07656	-0.01346	-0.00102	-0.00083			
40	0.27259	0.07824	-0.01149	-0.00119	-0.00103			
45	0.23853	0.07659	-0.00588	-0.00124	-0.00128			
50	0.21462	0.07632	-0.01451	-0.00068	-0.00133			
55	0.18106	0.07852	-0.01879	-0.00025	-0.00130			
60	0.13711	0.08593	-0.01752	-0.00040	-0.00153			
65	0.10003	0.08736	-0.01131	-0.00082	-0.00190			
70	0.07745	0.08280	-0.01329	-0.00044	-0.00183			
75	0.05720	0.08267	-0.02236	0.00021	-0.00137			
80	0.04268	0.07554	-0.02481	0.00060	-0.00099			
85	0.01304	0.07761	-0.02125	0.00036	-0.00031			
90	-0.01396	0.07525	-0.01159	-0.00016	0.00042			

Table 14. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.54391	0.10127	-0.00356	-0.00274	0.00012			
5	0.54933	0.09490	0.005638	-0.00317	0.00009			
10	0.55135	0.09347	-0.00158	-0.00263	-0.00004			
15	0.52762	0.09481	-0.00684	-0.00214	-0.00017			
20	0.51271	0.09076	-0.01062	-0.00157	-0.00014			
25	0.48939	0.08906	-0.01545	-0.00111	-0.00025			
30	0.47145	0.08561	-0.02028	-0.00072	-0.00068			
35	0.43855	0.08234	-0.02177	-0.00054	-0.00128			
40	0.41074	0.08318	-0.02103	-0.00042	-0.00189			
45	0.38734	0.07728	-0.01627	-0.00049	-0.00257			
50	0.36915	0.07218	-0.02522	0.00011	-0.00291			
55	0.32707	0.07328	-0.02999	0.00034	-0.00331			
60	0.25366	0.07316	-0.02747	0.00021	-0.00319			
65	0.16109	0.08102	-0.01999	-0.00035	-0.00204			
70	0.08846	0.08440	-0.01992	-0.00058	-0.00240			
75	0.05006	0.07836	-0.02809	0.00018	-0.00227			
80	0.00859	0.07714	-0.03102	0.00058	-0.00126			
85	-0.02935	0.07167	-0.02662	0.00030	-0.00015			
90	-0.07176	0.07120	-0.01627	-0.00059	0.00128			

Table 15. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ$, $\phi=0^\circ-90^\circ$

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.76225	0.06786	-0.00332	-0.00484	0.00229			
5	0.74023	0.06588	-0.00034	-0.00630	0.00483			
10	0.73671	0.07038	-0.00885	-0.00620	0.00518			
15	0.73222	0.07777	-0.01215	-0.00546	0.00408			
20	0.71048	0.07502	-0.01557	-0.00486	0.00352			
25	0.70289	0.07982	-0.01818	-0.00439	0.00283			
30	0.69040	0.07984	-0.02541	-0.00279	0.00212			
35	0.66037	0.08141	-0.02827	-0.00223	0.00194			
40	0.62668	0.07208	-0.02692	-0.00174	0.00097			
45	0.55041	0.07274	-0.02338	-0.00162	-0.00004			
50	0.50513	0.06563	-0.03142	-0.00101	-0.00113			
55	0.44710	0.06331	-0.03545	-0.00047	-0.00270			
60	0.37428	0.05963	-0.03168	-0.00063	-0.00447			
65	0.29472	0.06405	-0.02475	-0.00120	-0.00505			
70	0.19645	0.06701	-0.02346	-0.00165	-0.00342			
75	0.10850	0.06732	-0.02996	-0.00136	-0.00215			
80	0.03927	0.06948	-0.03242	-0.00101	-0.00208			
85	-0.01750	0.06800	-0.02931	-0.00099	-0.00056			
90	-0.07541	0.06866	-0.01928	-0.00164	0.00112			

Table 16. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ$, $\phi=0^\circ$ -90°

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.09310	0.05134	-0.00002	-0.00082	0.00101			
5	-0.08722	0.04828	0.00330	-0.00098	0.00094			
10	-0.08926	0.04952	0.00168	-0.00083	0.00082			
15	-0.08836	0.04930	0.00048	-0.00071	0.00064			
20	-0.08921	0.04943	-0.00056	-0.00044	0.00053			
25	-0.08705	0.04910	-0.00157	-0.00035	0.00045			
30	-0.08308	0.04899	-0.00293	-0.00022	0.00034			
35	-0.08116	0.04937	-0.00337	-0.00013	0.00024			
40	-0.07969	0.04988	-0.00261	-0.00014	0.00023			
45	-0.07874	0.05001	-0.00013	-0.00035	0.00027			
50	-0.07310	0.05067	-0.00332	-0.0000	0.00022			
55	-0.06715	0.04985	-0.00437	-0.00005	0.00026			
60	-0.06499	0.05153	-0.00375	-0.00013	0.00033			
65	-0.06007	0.05153	-0.00165	-0.00027	0.00040			
70	-0.05607	0.05255	-0.00207	-0.00022	0.00043			
75	-0.04983	0.05256	-0.00451	-0.00009	0.00049			
80	-0.04304	0.05254	-0.00513	-0.00008	0.00056			
85	-0.03786	0.05320	-0.00361	-0.00020	0.00070			
90	-0.03382	0.05421	-0.00011	-0.00043	0.00087			

Table 17. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^\circ$, $\phi=0^\circ$ -90°

STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$								
φ (°)	C_{N}	C_{M}	Cs	C_{YM}	C_{RM}			
0	0.10773	0.04508	-0.00299	-0.00032	0.00092			
5	0.11230	0.04332	0.00012	-0.00055	0.00084			
10	0.11086	0.04399	-0.00179	-0.00039	0.00067			
15	0.11092	0.04310	-0.00287	-0.00035	0.00056			
20	0.10658	0.04375	-0.00371	-0.00034	0.00050			
25	0.10285	0.04418	-0.00480	-0.00031	0.00044			
30	0.09874	0.04404	-0.00641	-0.00021	0.00032			
35	0.09574	0.04305	-0.00703	-0.00013	0.00027			
40	0.08969	0.04368	-0.00642	-0.00023	0.00032			
45	0.08006	0.04324	-0.00419	-0.00038	0.00036			
50	0.07543	0.04226	-0.00720	-0.00020	0.00033			
55	0.06870	0.04265	-0.00857	-0.00019	0.00038			
60	0.06125	0.04292	-0.00817	-0.00029	0.00043			
65	0.05308	0.04227	-0.00622	-0.00042	0.00046			
70	0.04404	0.04199	-0.00654	-0.00040	0.00050			
75	0.03490	0.04164	-0.00924	-0.00021	0.00053			
80	0.02290	0.04171	-0.00985	-0.00011	0.00058			
85	0.01519	0.03899	-0.00820	-0.00022	0.00070			
90	0.00405	0.03903	-0.00464	-0.00046	0.00092			

Table 18. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ$, $\phi=0^\circ-90^\circ$

STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$								
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.44137	0.03672	-0.00728	-0.00029	0.00147			
5	0.44701	0.03391	-0.00483	-0.00043	0.00137			
10	0.43734	0.03531	-0.00714	-0.00024	0.00110			
15	0.43316	0.03176	-0.00872	-0.00011	0.00076			
20	0.41541	0.03181	-0.00996	0.00002	0.00046			
25	0.40342	0.03111	-0.01140	0.00005	0.00015			
30	0.38875	0.02994	-0.01321	0.00016	-0.00039			
35	0.37261	0.02690	-0.01365	0.00017	-0.00085			
40	0.35118	0.02622	-0.01302	0.00010	-0.00128			
45	0.32480	0.02654	-0.01055	-0.00013	-0.00168			
50	0.29109	0.02680	-0.01338	0.00002	-0.00183			
55	0.24353	0.03025	-0.01502	0.00024	-0.00091			
60	0.16955	0.04166	-0.01454	0.00026	0.00062			
65	0.11748	0.04754	-0.01165	-0.00013	-0.00013			
70	0.08281	0.04983	-0.01230	-0.000007	-0.00023			
75	0.06203	0.04812	-0.01537	0.00032	0.00009			
80	0.03744	0.04824	-0.01620	0.00034	0.00034			
85	0.01811	0.04514	-0.01471	0.00019	0.00067			
90	-0.00825	0.04418	-0.01091	-0.00009	0.00115			

Table 19. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ$, $\phi=0^\circ$ -90°

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	0.34847	0.03230	-0.00575	-0.00016	0.00088			
5	0.33883	0.03179	-0.00466	-0.00019	0.00082			
10	0.33351	0.03045	-0.00618	-0.00003	0.00063			
15	0.33020	0.02985	-0.00785	0.00010	0.00088			
20	0.32428	0.02899	-0.00919	0.00027	0.00087			
25	0.31649	0.02863	-0.01039	0.00039	0.00074			
30	0.31161	0.02657	-0.01182	0.00052	0.00057			
35	0.30071	0.02408	-0.01238	0.00058	0.00028			
40	0.28279	0.02260	-0.01236	0.00065	-0.00001			
45	0.26751	0.02050	-0.01137	0.00060	-0.00046			
50	0.24478	0.01992	-0.01313	0.00067	-0.00102			
55	0.22016	0.01874	-0.01370	0.00064	-0.00158			
60	0.19692	0.01777	-0.01322	0.00045	-0.00201			
65	0.15915	0.01871	-0.01170	0.00033	-0.00193			
70	0.10108	0.02532	-0.01201	0.00049	-0.00002			
75	0.05319	0.02885	-0.01283	0.00047	-0.00019			
80	0.02758	0.02879	-0.01313	0.00052	-0.00014			
85	0.01625	0.02780	-0.01297	0.00041	0.00048			
90	-0.00887	0.02730	-0.01051	0.00021	0.00093			

Table 20. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ$, $\phi=0^\circ$ -90°

	STEADY ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}			
0	-0.05871	-0.00195	0.00066	0.00014	-0.00013			
5	-0.05795	-0.00157	0.00196	-0.00021	-0.00018			
10	-0.05655	-0.00107	0.00291	-0.00017	-0.00035			
15	-0.05590	-0.00093	0.00214	0.00021	-0.00042			
20	-0.05527	-0.00094	0.00216	0.00022	-0.00041			
25	-0.05496	-0.00099	0.00223	0.00019	-0.00039			
30	-0.05647	-0.00115	0.00305	-0.00017	-0.00026			
35	-0.05637	-0.00156	0.00243	-0.00006	-0.00017			
40	-0.05424	-0.00139	0.00287	-0.00023	-0.00011			
45	-0.05093	-0.00115	0.00252	-0.00019	-0.000002			
50	-0.04777	-0.00079	0.00288	-0.00027	0.00011			
55	-0.04414	-0.00054	0.00350	-0.00043	0.00021			
60	-0.04037	-0.00012	0.00425	-0.00067	0.00032			
65	-0.03619	0.00018	0.00411	-0.00066	0.00041			
70	-0.03032	0.00030	0.00308	-0.00032	0.00045			
75	-0.02242	0.00003	0.00507	-0.00094	0.00021			
80	-0.01492	-0.00044	0.00516	-0.00095	-0.00001			
85	-0.00932	-0.00049	0.00661	-0.00145	0.00003			
90	-0.00447	-0.00032	0.00614	-0.00138	-0.00007			

Table 21. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4, \alpha=20^\circ, \\ \varphi=0^\circ-90^\circ$

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	DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$						
α (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}		
0.16	-0.06149	0.04183	-0.00080	-0.00164	0.00116		
0.73	-0.06955	0.03980	0.005177	-0.00168	0.00111		
1.24	-0.04668	0.04323	-0.00015	-0.00139	0.00122		
1.74	-0.03102	0.04960	-0.00176	-0.00142	0.00133		
2.24	-0.01062	0.04476	0.00279	-0.00189	0.00147		
2.74	0.01291	0.03885	0.00017	-0.00178	0.00148		
3.24	0.02542	0.04134	-0.00193	-0.00149	0.00133		
3.74	0.05565	0.04032	0.00126	-0.00171	0.00150		
4.24	0.09231	0.03295	0.00211	-0.00187	0.00156		
4.74	0.12820	0.02100	0.00091	-0.00162	0.00137		
5.24	0.14752	0.01847	0.00036	-0.00131	0.00130		
5.74	0.15178	0.02996	0.00010	-0.00125	0.00148		
6.24	0.14999	0.04877	-0.00229	-0.00145	0.00183		
6.74	0.16718	0.05376	-0.00430	-0.00144	0.00183		
7.24	0.20364	0.04370	-0.00450	-0.00108	0.00151		
7.74	0.23918	0.03486	-0.00283	-0.00094	0.00128		
8.24	0.26570	0.03140	-0.00077	-0.00107	0.00132		
8.74	0.29140	0.02683	-0.00180	-0.00101	0.00146		
9.24	0.31958	0.02263	-0.00270	-0.00111	0.00162		
9.74	0.34453	0.02386	-0.00198	-0.00112	0.00171		
10.26	0.37078	0.02495	-0.00436	-0.00084	0.00172		
10.74	0.39666	0.02754	-0.00585	-0.00072	0.00163		
11.24	0.42967	0.02621	-0.00497	-0.00073	0.00172		
11.74	0.46550	0.02455	-0.00515	-0.00082	0.00202		
12.24	0.49976	0.02257	-0.00712	-0.00087	0.00205		
12.74	0.53006	0.02081	-0.00858	-0.00083	0.00175		
13.24	0.55460	0.02324	-0.00657	-0.00076	0.00157		
13.74	0.58741	0.02173	-0.00540	-0.00074	0.00159		
14.24	0.62095	0.01953	-0.00755	-0.00086	0.00141		
14.74	0.64838	0.02354	-0.00875	-0.00095	0.00118		
15.24	0.68621	0.02382	-0.00829	-0.00085	0.00109		
15.74	0.71784	0.02657	-0.00790	-0.00061	0.00104		
16.24	0.73085	0.03584	-0.00977	-0.00058	0.00115		
16.74	0.73804	0.04400	-0.01097	-0.00086	0.00134		
17.24	0.76041	0.04604	-0.01027	-0.00113	0.00158		
17.74	0.80007	0.04054	-0.00834	-0.00129	0.00162		
18.25	0.83424	0.03688	-0.00956	-0.00123	0.00151		
18.74	0.85237	0.04465	-0.01452	-0.00086	0.00146		

19.24	0.87284	0.04960	-0.01360	-0.00056	0.00152
19.74	0.90393	0.04878	-0.01069	-0.00053	0.00164
20.24	0.93344	0.05353	-0.01016	-0.00109	0.00188
20.74	0.95154	0.06353	-0.01154	-0.00157	0.00177
21.24	0.95889	0.07621	-0.01257	-0.00180	0.00164
21.74	0.97416	0.08399	-0.01323	-0.00177	0.00175
22.24	1.00141	0.08670	-0.01372	-0.00158	0.00170
22.75	1.03186	0.08554	-0.01312	-0.00156	0.00157
23.25	1.05369	0.08422	-0.01381	-0.00149	0.00157
23.75	1.06051	0.09039	-0.01557	-0.00125	0.00150
24.24	1.07228	0.09408	-0.01597	-0.00105	0.00126
24.74	1.09984	0.09176	-0.01511	-0.00085	0.00090
25.25	1.13530	0.09088	-0.01382	-0.00072	0.00082
25.75	1.16140	0.09957	-0.01431	-0.00085	0.00120
26.25	1.17046	0.11546	-0.01616	-0.00140	0.00169
26.75	1.19342	0.12112	-0.01689	-0.00165	0.00166
27.25	1.23430	0.11188	-0.01642	-0.00124	0.00107
27.75	1.26459	0.10726	-0.01494	-0.00101	0.00077
28.25	1.27720	0.10978	-0.01458	-0.00105	0.00079
28.75	1.29213	0.11393	-0.01550	-0.00125	0.00100
29.26	1.32472	0.11288	-0.01747	-0.00117	0.00078
29.75	1.32443	0.11646	-0.01630	-0.00132	0.00102

Table 22. Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha^+ = 0.05$

DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}		
0.16	-0.06555	0.04571	-0.00275	-0.00121	0.00060		
0.73	-0.06784	0.03846	0.00490	-0.00171	0.00074		
1.24	-0.05259	0.03623	0.00905	-0.00201	0.00114		
1.74	-0.03146	0.03604	0.00504	-0.00181	0.00122		
2.25	-0.01181	0.03532	-0.00046	-0.00154	0.00118		
2.74	0.00587	0.03219	-0.00318	-0.00141	0.00104		
3.24	0.02635	0.02804	-0.00239	-0.00132	0.00085		
3.75	0.05793	0.02191	-0.00073	-0.00131	0.00077		
4.24	0.08613	0.01995	-0.00046	-0.00132	0.00077		
4.74	0.11560	0.01879	0.000007	-0.00136	0.00091		
5.24	0.14476	0.01636	0.00103	-0.00143	0.00098		
5.74	0.17501	0.01187	0.00083	-0.00145	0.00102		
6.23	0.19991	0.01155	-0.00067	-0.00150	0.00123		
6.73	0.22375	0.01077	-0.00094	-0.00152	0.00128		
7.23	0.24010	0.01424	-0.00066	-0.00154	0.00135		
7.73	0.24989	0.01985	-0.00118	-0.00148	0.00140		
8.23	0.25711	0.02480	-0.00248	-0.00137	0.00141		
8.73	0.26819	0.02672	-0.00281	-0.00130	0.00140		
9.23	0.28777	0.02485	-0.00207	-0.00129	0.00139		
9.73	0.31485	0.02086	-0.00190	-0.00134	0.00145		
10.23	0.34522	0.01705	-0.00232	-0.00143	0.00159		
10.73	0.37538	0.01463	-0.00252	-0.00155	0.00181		
11.23	0.40232	0.01456	-0.00326	-0.00160	0.00204		
11.73	0.42551	0.01657	-0.00547	-0.00157	0.00219		
12.24	0.44507	0.02112	-0.00763	-0.00154	0.00220		
12.74	0.46206	0.02601	-0.00797	-0.00151	0.00213		
13.24	0.48087	0.02901	-0.00685	-0.00153	0.00199		
13.74	0.50690	0.02822	-0.00562	-0.00153	0.00177		
14.24	0.54273	0.02379	-0.00499	-0.00146	0.00155		
14.73	0.58368	0.01892	-0.00520	-0.00130	0.00140		
15.23	0.62207	0.01693	-0.00595	-0.00110	0.00135		
15.73	0.65265	0.01884	-0.00676	-0.00095	0.00144		
16.23	0.67630	0.02316	-0.00756	-0.00087	0.00162		
16.73	0.69751	0.02761	-0.00808	-0.00085	0.00178		
17.24	0.72046	0.03050	-0.00820	-0.00081	0.00187		
17.74	0.74642	0.03146	-0.00893	-0.00080	0.00183		
18.24	0.77696	0.03179	-0.00970	-0.00090	0.00173		
18.74	0.81202	0.03167	-0.00971	-0.00108	0.00162		
19.24	0.84991	0.03082	-0.00890	-0.00129	0.00158		
19.74	0.88792	0.02902	-0.00814	-0.00150	0.00163		

20.24	0.91989	0.02865	-0.00830	-0.00164	0.00175
20.74	0.94415	0.03112	-0.00980	-0.00168	0.00185
21.24	0.96355	0.03549	-0.01195	-0.00155	0.00187
21.75	0.97971	0.04285	-0.01355	-0.00142	0.00177
22.25	0.99599	0.04998	-0.01462	-0.00128	0.00160
22.75	1.01531	0.05652	-0.01572	-0.00118	0.00139
23.25	1.03714	0.06238	-0.01640	-0.00110	0.00116
23.74	1.06111	0.06733	-0.01587	-0.00102	0.00095
24.24	1.08871	0.07124	-0.01420	-0.00093	0.00082
24.75	1.11847	0.07608	-0.01208	-0.00098	0.00089
25.25	1.14760	0.08569	-0.01105	-0.00117	0.00118
25.74	1.17442	0.09586	-0.01225	-0.00152	0.00153
26.24	1.20480	0.10440	-0.01584	-0.00176	0.00178
26.75	1.23254	0.11373	-0.01869	-0.00186	0.00191
27.25	1.26842	0.11620	-0.02069	-0.00177	0.00166
27.75	1.30211	0.11899	-0.02046	-0.00176	0.00127
28.25	1.32623	0.12408	-0.01777	-0.00168	0.00091
28.75	1.34711	0.12888	-0.01552	-0.00161	0.00081
29.25	1.37768	0.13262	-0.01579	-0.00171	0.00093
29.71	1.41788	0.14877	-0.01668	-0.00213	0.00151

Table 23. Aerodynamic Coefficients, $U_{\infty} = 6$ [in/sec], $Re = 1.17x10^4$, $\alpha^+ = 0.10$

DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$						
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}	
0.17	-0.09357	0.05578	-0.00414	-0.00104	0.00091	
0.72	-0.09718	0.05291	0.00289	-0.00111	0.00102	
1.23	-0.08098	0.04335	0.00731	-0.00108	0.00108	
1.74	-0.06211	0.03474	0.00636	-0.00102	0.00098	
2.24	-0.04637	0.03035	0.00360	-0.00099	0.00100	
2.74	-0.02089	0.02442	0.00148	-0.00100	0.00104	
3.24	0.00172	0.02351	0.00036	-0.00110	0.00114	
3.75	0.03362	0.01808	-0.00005	-0.00105	0.00117	
4.25	0.05824	0.01985	0.00031	-0.00124	0.00131	
4.75	0.08571	0.01997	-0.00051	-0.00120	0.00139	
5.25	0.10824	0.02270	-0.00155	-0.00114	0.00143	
5.75	0.13378	0.02476	-0.00253	-0.00110	0.00148	
6.25	0.16088	0.02599	-0.00301	-0.00106	0.00149	
6.74	0.18786	0.02709	-0.00295	-0.00108	0.00156	
7.24	0.21577	0.02571	-0.00266	-0.00107	0.00154	
7.75	0.24140	0.02510	-0.00225	-0.00116	0.00161	
8.24	0.26707	0.02378	-0.00183	-0.00113	0.00165	
8.75	0.29252	0.02279	-0.00149	-0.00116	0.00173	
9.25	0.31831	0.02174	-0.00155	-0.00119	0.00182	
9.75	0.34416	0.02075	-0.00197	-0.00121	0.00191	
10.24	0.36892	0.02025	-0.00271	-0.00120	0.00201	
10.74	0.39131	0.02083	-0.00400	-0.00117	0.00209	
11.24	0.41114	0.02258	-0.00579	-0.00113	0.00216	
11.74	0.42902	0.02548	-0.00739	-0.00118	0.00215	
12.25	0.44598	0.02798	-0.00863	-0.00112	0.00216	
12.75	0.46276	0.03058	-0.00905	-0.00113	0.00209	
13.25	0.48297	0.03217	-0.00899	-0.00118	0.00201	
13.75	0.50918	0.03204	-0.00867	-0.00125	0.00192	
14.25	0.54031	0.03060	-0.00840	-0.00130	0.00186	
14.75	0.57242	0.02906	-0.00837	-0.00131	0.00184	
15.25	0.60164	0.02848	-0.00839	-0.00130	0.00184	
15.75	0.62624	0.02938	-0.00803	-0.00128	0.00185	
16.25	0.64668	0.03146	-0.00727	-0.00125	0.00186	
16.75	0.66564	0.03384	-0.00676	-0.00119	0.00186	
17.25	0.68654	0.03557	-0.00689	-0.00113	0.00186	
17.75	0.71173	0.03616	-0.00720	-0.00110	0.00187	
18.25	0.74244	0.03536	-0.00737	-0.00110	0.00191	
18.74	0.77721	0.03360	-0.00745	-0.00110	0.00195	
19.24	0.81359	0.03143	-0.00775	-0.00111	0.00199	
19.74	0.84965	0.02937	-0.00860	-0.00110	0.00199	

20.24	0.88415	0.02812	-0.01024	-0.00106	0.00195
20.74	0.91666	0.02817	-0.01258	-0.00100	0.00188
21.24	0.94720	0.02962	-0.01527	-0.00092	0.00178
21.74	0.97595	0.03242	-0.01797	-0.00087	0.00165
22.24	1.00334	0.03617	-0.02023	-0.00088	0.00151
22.74	1.03045	0.04011	-0.02163	-0.00091	0.00134
23.24	1.05851	0.04384	-0.02166	-0.00094	0.00112
23.74	1.08895	0.04723	-0.02034	-0.00090	0.00089
24.25	1.12291	0.05038	-0.01870	-0.00077	0.00069
24.75	1.16172	0.05365	-0.01745	-0.00067	0.00056
25.24	1.20318	0.05684	-0.01732	-0.00057	0.00046
25.74	1.24265	0.06435	-0.01827	-0.00056	0.00049
26.24	1.28303	0.06972	-0.01957	-0.00052	0.00036
26.75	1.31984	0.07807	-0.02111	-0.00044	0.00030
27.25	1.35769	0.08856	-0.02158	-0.00075	0.00042
27.74	1.38090	0.10041	-0.02191	-0.00071	0.00036
28.25	1.40047	0.11386	-0.02101	-0.00075	0.00049
28.74	1.40686	0.12777	-0.02018	-0.00095	0.00040
29.24	1.40286	0.13734	-0.01957	-0.00090	0.00012
29.71	1.37271	0.14552	-0.02049	-0.00051	-0.00007

Table 24. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha^+=0.15$

DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}		
0.16	-0.05450	0.02598	-0.00052	-0.00038	0.00062		
0.73	-0.04237	0.02529	0.00120	-0.00039	0.00063		
1.23	-0.02661	0.02579	0.00160	-0.00041	0.00084		
1.74	-0.00254	0.02518	-0.00052	-0.00035	0.00088		
2.24	0.01936	0.02436	-0.00097	-0.00038	0.00094		
2.75	0.03970	0.02143	-0.00170	-0.00040	0.00091		
3.24	0.05878	0.01968	-0.00125	-0.00046	0.00093		
3.74	0.08313	0.01613	-0.00064	-0.00048	0.00092		
4.24	0.10666	0.01486	-0.00064	-0.00045	0.00090		
4.74	0.13013	0.01523	-0.00095	-0.00042	0.00085		
5.25	0.15011	0.01800	-0.00111	-0.00040	0.00089		
5.74	0.17007	0.02055	-0.00153	-0.00042	0.00096		
6.24	0.19074	0.02268	-0.00235	-0.00041	0.00104		
6.74	0.21346	0.02383	-0.00288	-0.00042	0.00116		
7.25	0.23679	0.02401	-0.00299	-0.00042	0.00127		
7.75	0.26024	0.02359	-0.00323	-0.00035	0.00136		
8.24	0.28270	0.02220	-0.00360	-0.00026	0.00146		
8.74	0.30618	0.02157	-0.00435	-0.00026	0.00149		
9.25	0.33095	0.02135	-0.00506	-0.00027	0.00154		
9.74	0.35633	0.02139	-0.00558	-0.00027	0.00152		
10.24	0.38849	0.01936	-0.00621	-0.00027	0.00137		
10.75	0.42288	0.01720	-0.00653	-0.00027	0.00129		
11.25	0.45918	0.01565	-0.00657	-0.00022	0.00123		
11.74	0.49110	0.01425	-0.00671	-0.00020	0.00112		
12.24	0.52250	0.01459	-0.00753	-0.00012	0.00097		
12.75	0.55215	0.01478	-0.00811	-0.00001	0.00083		
13.25	0.57958	0.01558	-0.00802	0.00001	0.00080		
13.74	0.60315	0.01644	-0.00808	-0.000001	0.00082		
14.24	0.62928	0.01836	-0.00846	0.000008	0.00089		
14.75	0.65295	0.02246	-0.00935	0.00006	0.00097		
15.25	0.68173	0.02558	-0.01017	0.00016	0.00102		
15.74	0.71053	0.02775	-0.01055	0.00018	0.00116		
16.25	0.73849	0.03135	-0.01119	0.00015	0.00114		
16.75	0.76401	0.03341	-0.01145	0.00012	0.00112		
17.24	0.79087	0.03475	-0.01121	0.00012	0.00120		
17.74	0.81591	0.03592	-0.01162	0.00016	0.00122		
18.24	0.84480	0.03788	-0.01222	0.00014	0.00128		
18.75	0.87264	0.03969	-0.01283	0.00017	0.00128		
19.24	0.89960	0.04199	-0.01295	0.00022	0.00130		
19.74	0.92122	0.04570	-0.01323	0.00025	0.00133		

20.25	0.94275	0.05100	-0.01400	0.00021	0.00145
20.75	0.96229	0.05527	-0.01477	0.00011	0.00151
21.25	0.98459	0.05977	-0.01536	0.000006	0.00147
21.74	1.00538	0.06286	-0.01572	-0.00004	0.00131
22.24	1.02796	0.06602	-0.01592	-0.00011	0.00105
22.74	1.05239	0.06703	-0.01613	-0.00010	0.00080
23.24	1.07913	0.06806	-0.01608	-0.00013	0.00067
23.75	1.10235	0.06989	-0.01590	-0.00021	0.00061
24.25	1.12414	0.07288	-0.01542	-0.00024	0.00082
24.74	1.14701	0.07457	-0.01474	-0.00028	0.00106
25.24	1.16831	0.07719	-0.01461	-0.00030	0.00118
25.75	1.19009	0.08032	-0.01544	-0.00035	0.00119
26.25	1.20643	0.08390	-0.01702	-0.00035	0.00102
26.74	1.22477	0.08787	-0.01838	-0.00034	0.00080
27.25	1.24299	0.09084	-0.01903	-0.00033	0.00064
27.75	1.26263	0.09103	-0.01858	-0.00036	0.00066
28.25	1.28152	0.08878	-0.01763	-0.00037	0.00069
28.75	1.28930	0.08800	-0.01732	-0.00035	0.00087
29.26	1.29446	0.09001	-0.01771	-0.00039	0.00103
29.72	1.29997	0.09109	-0.01811	-0.00059	0.00084

Table 25. Aerodynamic Coefficients, $U_{\infty} = 10$ [in/sec], $Re = 2.15 \times 10^4$, $\alpha^+ = 0.05$

DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$						
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}	
0.17	-0.01604	0.00782	-0.00020	-0.00051	0.00083	
0.72	-0.00896	0.00435	0.00120	-0.00052	0.00080	
1.23	0.00321	0.00012	0.00254	-0.00054	0.00076	
1.74	0.02406	-0.00433	0.00255	-0.00049	0.00065	
2.25	0.04812	-0.00658	0.00193	-0.00047	0.00072	
2.74	0.07163	-0.00931	0.00186	-0.00047	0.00068	
3.24	0.09777	-0.01103	0.00160	-0.00048	0.00083	
3.74	0.12060	-0.01163	0.00138	-0.00048	0.00085	
4.24	0.14313	-0.01181	0.00090	-0.00049	0.00096	
4.75	0.16506	-0.01200	0.00039	-0.00045	0.00104	
5.25	0.18527	-0.01066	-0.00021	-0.00044	0.00114	
5.75	0.20536	-0.00924	-0.00084	-0.00042	0.00124	
6.25	0.22504	-0.00720	-0.00131	-0.00041	0.00137	
6.74	0.24487	-0.00589	-0.00179	-0.00038	0.00148	
7.24	0.26411	-0.00395	-0.00230	-0.00040	0.00158	
7.74	0.28302	-0.00195	-0.00279	-0.00042	0.00168	
8.24	0.30323	-0.00154	-0.00308	-0.00045	0.00174	
8.74	0.32406	-0.00132	-0.00339	-0.00049	0.00178	
9.25	0.34613	-0.00190	-0.00376	-0.00052	0.00178	
9.74	0.36940	-0.00312	-0.00417	-0.00053	0.00176	
10.24	0.39358	-0.00467	-0.00461	-0.00052	0.00172	
10.76	0.41848	-0.00628	-0.00514	-0.00050	0.00168	
11.24	0.44392	-0.00774	-0.00570	-0.00047	0.00162	
11.74	0.46931	-0.00883	-0.00615	-0.00045	0.00153	
12.25	0.49721	-0.00991	-0.00628	-0.00044	0.00150	
12.75	0.52540	-0.01089	-0.00627	-0.00045	0.00144	
13.25	0.55546	-0.01187	-0.00623	-0.00045	0.00140	
13.75	0.58750	-0.01280	-0.00625	-0.00045	0.00138	
14.25	0.62072	-0.01345	-0.00638	-0.00042	0.00137	
14.75	0.65389	-0.01363	-0.00669	-0.00038	0.00138	
15.25	0.68614	-0.01338	-0.00716	-0.00032	0.00140	
15.75	0.71700	-0.01275	-0.00766	-0.00025	0.00143	
16.24	0.74640	-0.01180	-0.00810	-0.00018	0.00146	
16.74	0.77474	-0.01064	-0.00859	-0.00011	0.00148	
17.24	0.80254	-0.00933	-0.00921	-0.00006	0.00150	
17.74	0.83025	-0.00787	-0.00981	-0.00001	0.00151	
18.24	0.85795	-0.00619	-0.01023	0.0000004	0.00150	
18.74	0.88531	-0.00426	-0.01049	-0.00001	0.00150	
19.24	0.91155	-0.00189	-0.01076	-0.00005	0.00147	
19.74	0.93617	0.00103	-0.01123	-0.00009	0.00143	

20.24	0.95914	0.00458	-0.01194	-0.00015	0.00136
20.74	0.98076	0.00868	-0.01286	-0.00020	0.00128
21.24	1.00162	0.01315	-0.01390	-0.00024	0.00118
21.74	1.02229	0.01784	-0.01496	-0.00027	0.00110
22.24	1.04319	0.02266	-0.01590	-0.00030	0.00103
22.74	1.06474	0.02747	-0.01650	-0.00032	0.00098
23.24	1.08758	0.03202	-0.01653	-0.00034	0.00095
23.74	1.11222	0.03617	-0.01601	-0.00035	0.00096
24.24	1.13903	0.03979	-0.01521	-0.00033	0.00103
24.75	1.16760	0.04354	-0.01452	-0.00032	0.00111
25.24	1.19798	0.04699	-0.01437	-0.00030	0.00123
25.74	1.22935	0.05106	-0.01468	-0.00030	0.00131
26.24	1.26010	0.05474	-0.01549	-0.00033	0.00139
26.75	1.29121	0.06012	-0.01636	-0.00040	0.00149
27.25	1.31976	0.06580	-0.01729	-0.00041	0.00134
27.75	1.34693	0.07242	-0.01804	-0.00053	0.00134
28.25	1.37155	0.07946	-0.01837	-0.00054	0.00109
28.74	1.39634	0.08476	-0.01872	-0.00058	0.00093
29.24	1.42056	0.09150	-0.01893	-0.00064	0.00075
29.71	1.44012	0.09397	-0.01987	-0.00059	0.00042

Table 26. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4,\,\alpha^+=0.10$

	DYNAMIC PITCH-UP $\alpha = 0^{\circ}-30^{\circ}$							
α (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0.17	-0.00859	0.00223	0.00016	-0.00025	0.00041			
0.72	0.00936	-0.00274	0.00139	-0.00016	0.00033			
1.24	0.02644	-0.00316	0.00180	-0.00018	0.00037			
1.74	0.04934	-0.00392	0.00106	-0.00024	0.00041			
2.24	0.07275	-0.00491	0.00014	-0.00026	0.00044			
2.74	0.09722	-0.00594	-0.00039	-0.00027	0.00048			
3.24	0.12064	-0.00635	-0.00055	-0.00028	0.00056			
3.74	0.14658	-0.00677	-0.00073	-0.00025	0.00065			
4.24	0.17311	-0.00764	-0.00089	-0.00022	0.00073			
4.74	0.19836	-0.00829	-0.00103	-0.00019	0.00084			
5.24	0.22452	-0.00925	-0.00123	-0.00017	0.00089			
5.75	0.24922	-0.00900	-0.00151	-0.00018	0.00101			
6.25	0.27481	-0.00920	-0.00193	-0.00017	0.00112			
6.74	0.29827	-0.00865	-0.00244	-0.00015	0.00121			
7.25	0.32353	-0.00829	-0.00274	-0.00016	0.00140			
7.75	0.34951	-0.00871	-0.00329	-0.00014	0.00149			
8.24	0.37639	-0.00938	-0.00377	-0.00015	0.00155			
8.74	0.40697	-0.01149	-0.00417	-0.00015	0.00160			
9.24	0.43906	-0.01383	-0.00461	-0.00016	0.00160			
9.75	0.47154	-0.01570	-0.00517	-0.00015	0.00161			
10.25	0.50787	-0.01802	-0.00564	-0.00017	0.00155			
10.74	0.54249	-0.02008	-0.00640	-0.00012	0.00143			
11.25	0.57819	-0.02146	-0.00697	-0.00010	0.00133			
11.75	0.60790	-0.02069	-0.00751	-0.00010	0.00125			
12.24	0.63857	-0.01935	-0.00810	-0.00011	0.00117			
12.74	0.66727	-0.01800	-0.00831	-0.00007	0.00110			
13.25	0.69260	-0.01486	-0.00831	-0.00009	0.00108			
13.74	0.71963	-0.01214	-0.00852	-0.00004	0.00113			
14.24	0.74753	-0.00976	-0.00901	0.00002	0.00118			
14.74	0.77578	-0.00761	-0.00930	0.00010	0.00130			
15.25	0.80254	-0.00546	-0.00978	0.00013	0.00135			
15.75	0.82977	-0.00312	-0.01033	0.00021	0.00146			
16.25	0.85273	0.00003	-0.01068	0.00020	0.00150			
16.74	0.87652	0.00262	-0.01092	0.00022	0.00156			
17.25	0.89936	0.00534	-0.01120	0.00022	0.00155			
17.74	0.91862	0.00983	-0.01159	0.00018	0.00157			
18.24	0.94189	0.01287	-0.01196	0.00014	0.00152			
18.75	0.96592	0.01621	-0.01226	0.00008	0.00149			
19.24	0.99134	0.01936	-0.01228	0.00002	0.00141			
19.74	1.01622	0.02256	-0.01242	-0.00005	0.00142			

20.24	1.04240	0.02505	-0.01266	-0.00014	0.00142
20.75	1.06708	0.02812	-0.01324	-0.00016	0.00138
21.25	1.09296	0.03140	-0.01386	-0.00016	0.00129
21.74	1.11514	0.03418	-0.01429	-0.00017	0.00130
22.25	1.13862	0.03767	-0.01502	-0.00014	0.00123
22.75	1.16144	0.04100	-0.01560	-0.00009	0.00117
23.24	1.18301	0.04400	-0.01588	-0.00008	0.00108
23.74	1.20018	0.04729	-0.01601	-0.00008	0.00112
24.25	1.22335	0.05020	-0.01584	-0.00006	0.00106
24.74	1.24509	0.05329	-0.01551	-0.00009	0.00114
25.24	1.26998	0.05579	-0.01568	-0.00007	0.00099
25.74	1.29354	0.05831	-0.01630	-0.00011	0.00099
26.24	1.31751	0.06123	-0.01692	-0.00015	0.00087
26.75	1.34000	0.06397	-0.01755	-0.00019	0.00074
27.25	1.36130	0.06634	-0.01781	-0.00023	0.00063
27.75	1.38088	0.06841	-0.01787	-0.00028	0.00063
28.25	1.39938	0.07003	-0.01762	-0.00033	0.00065
28.75	1.41048	0.07142	-0.01740	-0.00040	0.00075
29.25	1.41960	0.07082	-0.01761	-0.00051	0.00076
29.71	1.41482	0.06717	-0.01724	-0.00055	0.00055

Table 27. Aerodynamic Coefficients, $U_{\infty}=14$ [in/sec], $Re=2.94x10^4$, $\alpha^+=0.05$

D. DYNAMIC AERODYNAMIC COEFFICIENTS, ROLL MANEUVER

	DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0.24	-0.42449	0.25959	-0.00206	-0.00036	0.00199			
0.74	-0.43418	0.26263	0.00414	-0.00064	0.00173			
1.25	-0.44311	0.26886	0.00826	-0.00086	0.00120			
1.74	-0.41311	0.25477	0.01005	-0.00121	0.00099			
2.25	-0.43157	0.26042	0.00783	-0.00057	0.00086			
2.75	-0.42671	0.26167	0.00848	-0.00078	0.00054			
3.25	-0.42278	0.25837	0.00799	-0.00062	0.00034			
3.74	-0.41078	0.24846	0.00707	-0.00034	0.00010			
4.25	-0.40943	0.24314	0.00668	0.00002	-0.00004			
4.74	-0.42783	0.26615	0.00646	-0.00058	0.00032			
5.25	-0.42428	0.26140	0.00376	-0.00030	0.00034			
5.75	-0.40931	0.24876	0.00396	0.00008	0.00001			
6.24	-0.42368	0.25822	0.00328	0.00037	-0.00030			
6.75	-0.40710	0.25020	0.00336	0.00013	-0.00022			
7.25	-0.41539	0.25626	0.00308	-0.00013	-0.00005			
7.75	-0.41891	0.25890	0.00272	-0.00006	-0.00005			
8.25	-0.42839	0.26194	0.00037	0.00084	-0.00056			
8.75	-0.44081	0.27014	0.00116	0.00078	-0.00038			
9.25	-0.43301	0.27202	0.00254	-0.00040	-0.00016			
9.75	-0.42943	0.26431	0.00122	0.00024	-0.00063			
10.25	-0.42745	0.26128	0.00183	0.00032	-0.00059			
10.75	-0.43016	0.26938	-0.00031	0.00004	-0.00032			
11.25	-0.41577	0.25684	-0.00092	0.00047	-0.00069			
11.75	-0.41591	0.25750	0.00011	0.00077	-0.00111			
12.25	-0.43476	0.26695	0.00040	0.00077	-0.00088			
12.75	-0.43261	0.26392	-0.00052	0.00071	-0.00055			
13.25	-0.42343	0.26012	-0.00075	0.00043	-0.00074			
13.75	-0.43221	0.26698	-0.00133	0.00087	-0.00110			
14.25	-0.45347	0.28022	-0.00139	0.00098	-0.00098			
14.75	-0.45895	0.28090	-0.00198	0.00075	-0.00083			
15.25	-0.43587	0.26313	-0.00177	0.00063	-0.00137			
15.75	-0.43946	0.26627	-0.00112	0.00092	-0.00159			
16.25	-0.43349	0.27204	-0.00338	0.00114	-0.00117			
16.75	-0.44217	0.27465	-0.00377	0.00121	-0.00116			
17.25	-0.45028	0.27438	-0.00242	0.00112	-0.00112			
17.75	-0.41834	0.25544	-0.00142	0.00097	-0.00128			
18.25	-0.42803	0.26259	-0.00358	0.00123	-0.00123			
18.75	-0.45027	0.27806	-0.00457	0.00115	-0.00095			

19.25						
20.25 -0.44151 0.27502 -0.00530 0.00147 -0.00095 20.75 -0.44805 0.27601 -0.00361 0.00132 -0.00101 21.75 -0.46178 0.27519 -0.00245 0.00101 -0.00084 21.75 -0.46155 0.28332 -0.00221 0.00084 -0.00096 22.75 -0.46074 0.28388 -0.00416 0.00145 -0.00096 22.75 -0.45480 0.28477 -0.00521 0.00153 -0.00117 23.25 -0.47762 0.29804 -0.00487 0.00114 -0.00108 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00545 0.00124 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44526 0.26935 -0.00730 0.00206 -0.00164						
20.75 -0.44805 0.27601 -0.00361 0.00132 -0.00101 21.25 -0.44878 0.27519 -0.00245 0.00101 -0.00120 21.75 -0.46155 0.28332 -0.00221 0.00084 -0.00084 22.25 -0.46074 0.28388 -0.00416 0.00145 -0.00096 22.75 -0.45480 0.28477 -0.00521 0.00153 -0.00117 23.25 -0.47762 0.29804 -0.00487 0.00124 -0.00108 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00124 -0.00091 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00209 -0.00135 26.74 -0.45289 0.27877 -0.00790 0.00209 -0.00135		-0.45316				
21.25 -0.44878 0.27519 -0.00245 0.00101 -0.00120 21.75 -0.46155 0.28332 -0.0021 0.00084 -0.00084 22.25 -0.46074 0.28388 -0.00416 0.00145 -0.00096 22.75 -0.45480 0.28477 -0.00521 0.00113 -0.00117 23.25 -0.47762 0.29804 -0.00487 0.00114 -0.00108 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00106 <	20.25	-0.44151	0.27502	-0.00530	0.00147	-0.00095
21.75 -0.46155 0.28332 -0.00221 0.00084 -0.00084 22.25 -0.46074 0.28388 -0.00416 0.00145 -0.00096 22.75 -0.45480 0.28477 -0.00521 0.00113 -0.00118 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00145 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00106 28.75 -0.44519 0.28071 -0.00859 0.00143 -0.00107	20.75	-0.44805	0.27601	-0.00361	0.00132	-0.00101
22.25 -0.46074 0.28388 -0.00416 0.00145 -0.00096 22.75 -0.45480 0.28477 -0.00521 0.00153 -0.00117 23.25 -0.47762 0.29804 -0.00487 0.00114 -0.00118 23.75 -0.46582 0.28951 -0.00589 0.00154 -0.00131 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45278 0.28131 -0.00801 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28024 -0.00859 0.00143 -0.00106	21.25	-0.44878	0.27519	-0.00245	0.00101	-0.00120
22.75 -0.45480 0.28477 -0.00521 0.00153 -0.00117 23.25 -0.47762 0.29804 -0.00487 0.00114 -0.00108 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.0013 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28244 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00899 0.00173 -0.00115 <	21.75	-0.46155	0.28332	-0.00221	0.00084	-0.00084
23.25 -0.47762 0.29804 -0.00487 0.00114 -0.00108 23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26267 -0.00730 0.00206 -0.00164 26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00899 0.00171 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00136 28.75 -0.44410 0.28071 -0.00899 0.00143 -0.00061 28.75 -0.44410 0.28040 -0.01086 0.00173 -0.00115	22.25	-0.46074	0.28388	-0.00416	0.00145	-0.00096
23.75 -0.46582 0.28951 -0.00545 0.00123 -0.00116 24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45278 0.28131 -0.00861 0.00193 -0.00108 26.74 -0.45278 0.28307 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00843 0.00178 -0.00136 27.75 -0.45237 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00107 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115	22.75	-0.45480	0.28477	-0.00521	0.00153	-0.00117
24.25 -0.45967 0.28480 -0.00589 0.00154 -0.00131 24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00894 0.00178 -0.00136 27.75 -0.45437 0.28119 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00180 -0.00117	23.25	-0.47762	0.29804	-0.00487	0.00114	-0.00108
24.75 -0.44881 0.27771 -0.00490 0.00124 -0.00097 25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.75 -0.44639 0.28307 -0.00861 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46222 0.28833 -0.01207 0.00181 -0.00126	23.75	-0.46582	0.28951	-0.00545	0.00123	-0.00116
25.24 -0.42764 0.26267 -0.00513 0.00133 -0.00115 25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.444519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.45221 0.28833 -0.01207 0.00181 -0.00120	24.25	-0.45967	0.28480	-0.00589	0.00154	-0.00131
25.74 -0.44126 0.26935 -0.00730 0.00206 -0.00164 26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.446456 0.28786 -0.01119 0.00180 -0.00117 31.25 -0.45973 0.29089 -0.01207 0.00181 -0.00120 31.75 -0.45461 0.28933 -0.01103 0.00203 -0.00125	24.75	-0.44881	0.27771	-0.00490	0.00124	-0.00097
26.24 -0.45859 0.27877 -0.00790 0.00209 -0.00135 26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.46222 0.28833 -0.01207 0.00181 -0.00120 31.25 -0.45973 0.29089 -0.01242 0.00196 -0.00117 31.75 -0.45461 0.28993 -0.01103 0.00203 -0.00125	25.24	-0.42764	0.26267	-0.00513	0.00133	-0.00115
26.74 -0.45278 0.28131 -0.00861 0.00193 -0.00108 27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.46222 0.28833 -0.01207 0.00181 -0.00120 31.25 -0.45973 0.29089 -0.01242 0.00196 -0.00117 31.75 -0.45461 0.28993 -0.01103 0.00203 -0.00125 32.25 -0.44722 0.28340 -0.01073 0.00191 -0.00134	25.74	-0.44126	0.26935	-0.00730	0.00206	-0.00164
27.25 -0.44639 0.28307 -0.00943 0.00178 -0.00136 27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.46222 0.28833 -0.01207 0.00181 -0.00120 31.25 -0.45973 0.29089 -0.01242 0.00196 -0.00117 31.75 -0.45461 0.28993 -0.01103 0.00203 -0.00125 32.25 -0.44722 0.28340 -0.01073 0.00191 -0.00139 32.75 -0.45280 0.28042 -0.01152 0.00227 -0.00184	26.24	-0.45859	0.27877	-0.00790	0.00209	-0.00135
27.75 -0.45437 0.28319 -0.00899 0.00171 -0.00107 28.25 -0.45823 0.28224 -0.00859 0.00143 -0.00061 28.75 -0.44410 0.28071 -0.00949 0.00159 -0.00093 29.25 -0.43596 0.28040 -0.01086 0.00173 -0.00115 29.75 -0.44519 0.27897 -0.01139 0.00189 -0.00117 30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.46222 0.28833 -0.01207 0.00181 -0.00120 31.25 -0.45973 0.29089 -0.01242 0.00196 -0.00117 31.75 -0.45461 0.28993 -0.01103 0.00203 -0.00125 32.25 -0.44722 0.28340 -0.01073 0.00191 -0.00139 32.75 -0.45280 0.28042 -0.01152 0.00227 -0.00184 33.25 -0.43273 0.26622 -0.01097 0.00244 -0.00195	26.74	-0.45278	0.28131	-0.00861	0.00193	-0.00108
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30.25 -0.46456 0.28786 -0.01119 0.00180 -0.00106 30.75 -0.46222 0.28833 -0.01207 0.00181 -0.00120 31.25 -0.45973 0.29089 -0.01242 0.00196 -0.00117 31.75 -0.45461 0.28993 -0.01103 0.00203 -0.00125 32.25 -0.44722 0.28340 -0.01073 0.00191 -0.00139 32.75 -0.45280 0.28042 -0.01152 0.00227 -0.00184 33.25 -0.43273 0.26622 -0.01097 0.00244 -0.00195 33.75 -0.43735 0.27421 -0.01290 0.00238 -0.00157 34.25 -0.43086 0.27063 -0.01344 0.00222 -0.00139 34.75 -0.41573 0.26160 -0.01190 0.00214 -0.00168 35.25 -0.42520 0.27111 -0.01046 0.00175 -0.00152 36.25 -0.43451 0.27015 -0.01066 0.00205 -0.00167	29.25	-0.43596	0.28040	-0.01086	0.00173	-0.00115
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36.75 -0.43496 0.27292 -0.01077 0.00217 -0.00154 37.25 -0.46063 0.29187 -0.01100 0.00203 -0.00136 37.75 -0.45479 0.28955 -0.01194 0.00211 -0.00128 38.25 -0.43937 0.28229 -0.00992 0.00151 -0.00101 38.75 -0.43221 0.27215 -0.00824 0.00149 -0.00114 39.25 -0.43840 0.27359 -0.00871 0.00181 -0.00143	35.75	-0.44138	0.27697	-0.00935	0.00183	-0.00152
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37.75 -0.45479 0.28955 -0.01194 0.00211 -0.00128 38.25 -0.43937 0.28229 -0.00992 0.00151 -0.00101 38.75 -0.43221 0.27215 -0.00824 0.00149 -0.00114 39.25 -0.43840 0.27359 -0.00871 0.00181 -0.00143	36.75	-0.43496	0.27292	-0.01077	0.00217	-0.00154
38.25 -0.43937 0.28229 -0.00992 0.00151 -0.00101 38.75 -0.43221 0.27215 -0.00824 0.00149 -0.00114 39.25 -0.43840 0.27359 -0.00871 0.00181 -0.00143	37.25	-0.46063	0.29187	-0.01100	0.00203	-0.00136
38.75 -0.43221 0.27215 -0.00824 0.00149 -0.00114 39.25 -0.43840 0.27359 -0.00871 0.00181 -0.00143	37.75	-0.45479	0.28955	-0.01194	0.00211	-0.00128
39.25 -0.43840 0.27359 -0.00871 0.00181 -0.00143	38.25	-0.43937	0.28229	-0.00992	0.00151	-0.00101
	38.75	-0.43221	0.27215	-0.00824	0.00149	-0.00114
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	39.25	-0.43840	0.27359	-0.00871	0.00181	-0.00143
57.75 0.12730 0.20027 0.01023 0.00232 -0.00171	39.75	-0.42750	0.26629	-0.01025	0.00232	-0.00191

40.75 -0.43866 0.27149 -0.00985 0.00283 -0.00175 41.25 -0.42822 0.26419 -0.00830 0.00252 -0.00152 41.75 -0.42072 0.26522 -0.00861 0.00204 -0.00137 42.25 -0.43850 0.27308 -0.00629 0.00221 -0.00173 43.25 -0.43861 0.27320 -0.00560 0.00214 -0.00158 43.75 -0.44149 0.27492 -0.00633 0.00227 -0.00162 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00163 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00156 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00195 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00144						
41.25 -0.42822 0.26419 -0.00830 0.00252 -0.00152 41.75 -0.42072 0.26522 -0.00861 0.00204 -0.00123 42.25 -0.43530 0.27506 -0.00811 0.00206 -0.00133 42.75 -0.43861 0.27308 -0.00629 0.00221 -0.00153 43.25 -0.43861 0.27320 -0.00633 0.00227 -0.00162 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00154 45.75 -0.41958 0.26210 -0.00221 0.00167 -0.00154 45.25 -0.4298 0.26410 -0.00329 0.00154 -0.00143 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00194 46.25 -0.4041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00204 -0.00143 <t< td=""><td>40.25</td><td>-0.43252</td><td>0.27024</td><td>-0.01104</td><td>0.00260</td><td>-0.00214</td></t<>	40.25	-0.43252	0.27024	-0.01104	0.00260	-0.00214
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42.25 -0.43530 0.27506 -0.00811 0.00206 -0.00137 42.75 -0.43850 0.27308 -0.00629 0.00221 -0.00173 43.25 -0.43861 0.27320 -0.00560 0.00214 -0.00158 43.75 -0.44149 0.27492 -0.00633 0.00227 -0.00167 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00154 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.0014 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.0019 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00219 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00142 47.25 -0.444499 0.28920 -0.00996 0.00204 -0.0032 47.25 -0.43314 0.28394 -0.01120 0.00243 -0.00132 <t< td=""><td>41.25</td><td>-0.42822</td><td>0.26419</td><td>-0.00830</td><td>0.00252</td><td>-0.00152</td></t<>	41.25	-0.42822	0.26419	-0.00830	0.00252	-0.00152
42.75 -0.43850 0.27308 -0.00629 0.00221 -0.00173 43.25 -0.43861 0.27320 -0.00560 0.00214 -0.00158 43.75 -0.44149 0.27492 -0.00633 0.00227 -0.00162 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00156 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00199 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00219 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00144 48.25 -0.42338 0.26514 -0.00843 0.00225 -0.0153 <	41.75	-0.42072	0.26522	-0.00861	0.00204	-0.00123
43.25 -0.43861 0.27320 -0.00560 0.00214 -0.00158 43.75 -0.44149 0.27492 -0.00633 0.00227 -0.00162 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00150 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00145 46.75 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00204 -0.00024 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.0084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.0132 48.25 -0.42338 0.26514 -0.00843 0.00223 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00132 <t< td=""><td>42.25</td><td>-0.43530</td><td>0.27506</td><td>-0.00811</td><td>0.00206</td><td>-0.00137</td></t<>	42.25	-0.43530	0.27506	-0.00811	0.00206	-0.00137
43.75 -0.44149 0.27492 -0.00633 0.00227 -0.00162 44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00150 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00145 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00145 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00082 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.0013 48.25 -0.42338 0.26514 -0.00843 0.00223 -0.00149 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00186 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.0018 <t< td=""><td>42.75</td><td>-0.43850</td><td>0.27308</td><td>-0.00629</td><td>0.00221</td><td>-0.00173</td></t<>	42.75	-0.43850	0.27308	-0.00629	0.00221	-0.00173
44.25 -0.42487 0.26509 -0.00525 0.00218 -0.00167 44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00150 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00199 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00142 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.0084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00132 48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00134 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 <	43.25	-0.43861	0.27320	-0.00560	0.00214	-0.00158
44.75 -0.40190 0.25135 -0.00271 0.00176 -0.00150 45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00195 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00219 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00223 -0.00135 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00196 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166	43.75	-0.44149	0.27492	-0.00633	0.00227	-0.00162
45.25 -0.42208 0.26410 -0.00329 0.00154 -0.00145 45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00195 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00225 -0.00145 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00182 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00196 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00196 51.25 -0.41375 0.25605 -0.01266 0.00264 -0.00195	44.25	-0.42487	0.26509	-0.00525	0.00218	-0.00167
45.75 -0.41958 0.26227 -0.00619 0.00201 -0.00195 46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00215 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00196 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40443 0.25114 -0.01202 0.00259 -0.00199	44.75	-0.40190	0.25135	-0.00271	0.00176	-0.00150
46.25 -0.40041 0.25158 -0.00731 0.00246 -0.00219 46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00223 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00196 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00196 51.25 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01227 0.00271 -0.00223	45.25	-0.42208	0.26410	-0.00329	0.00154	-0.00145
46.75 -0.42316 0.26887 -0.00683 0.00208 -0.00143 47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00195 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00195 52.25 -0.40840 0.26114 -0.01227 0.00271 -0.00223	45.75	-0.41958	0.26227	-0.00619	0.00201	-0.00199
47.25 -0.44499 0.28920 -0.00996 0.00204 -0.00084 47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01227 0.00271 -0.00223 53.25 -0.40443 0.25513 -0.01374 0.00263 -0.00216	46.25	-0.40041	0.25158	-0.00731	0.00246	-0.00219
47.75 -0.43914 0.28394 -0.01120 0.00243 -0.00135 48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00195 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00195 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.75 -0.39878 0.25573 -0.01480 0.00296 -0.00226	46.75	-0.42316	0.26887	-0.00683	0.00208	-0.00143
48.25 -0.42338 0.26514 -0.00843 0.00253 -0.00149 48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00196 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00199 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00226 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207	47.25	-0.44499	0.28920	-0.00996	0.00204	-0.00084
48.75 -0.41556 0.26265 -0.00849 0.00222 -0.00132 49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00195 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00196 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00203	47.75	-0.43914	0.28394	-0.01120	0.00243	-0.00135
49.25 -0.42365 0.27189 -0.01192 0.00229 -0.00188 49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00225	48.25	-0.42338	0.26514	-0.00843	0.00253	-0.00149
49.75 -0.41649 0.26498 -0.01207 0.00251 -0.00191 50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38213 0.24703 -0.01476 0.00289 -0.00223	48.75	-0.41556	0.26265	-0.00849	0.00222	-0.00132
50.25 -0.41645 0.26121 -0.00962 0.00240 -0.00166 50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00225 56.25 -0.40207 0.25835 -0.01476 0.00289 -0.00225	49.25	-0.42365	0.27189	-0.01192	0.00229	-0.00188
50.75 -0.41375 0.25791 -0.01052 0.00264 -0.00199 51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00225 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00225	49.75	-0.41649	0.26498	-0.01207	0.00251	-0.00191
51.25 -0.41395 0.26087 -0.01261 0.00291 -0.00225 51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00196 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00222 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00223 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218	50.25	-0.41645	0.26121	-0.00962	0.00240	-0.00166
51.75 -0.40150 0.25605 -0.01266 0.00269 -0.00199 52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00223 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203	50.75	-0.41375	0.25791	-0.01052	0.00264	-0.00199
52.25 -0.40840 0.26114 -0.01202 0.00259 -0.00196 52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00222 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184	51.25	-0.41395	0.26087	-0.01261	0.00291	-0.00225
52.75 -0.40443 0.25611 -0.01227 0.00271 -0.00223 53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00229 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00218 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184	51.75	-0.40150	0.25605	-0.01266	0.00269	-0.00199
53.25 -0.40009 0.25533 -0.01374 0.00263 -0.00216 53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199	52.25	-0.40840	0.26114	-0.01202	0.00259	-0.00196
53.75 -0.39878 0.25574 -0.01480 0.00296 -0.00222 54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205 <td>52.75</td> <td>-0.40443</td> <td>0.25611</td> <td>-0.01227</td> <td>0.00271</td> <td>-0.00223</td>	52.75	-0.40443	0.25611	-0.01227	0.00271	-0.00223
54.25 -0.39932 0.25818 -0.01475 0.00279 -0.00207 54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	53.25	-0.40009	0.25533	-0.01374	0.00263	-0.00216
54.75 -0.40667 0.26422 -0.01588 0.00249 -0.00201 55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	53.75	-0.39878	0.25574	-0.01480	0.00296	-0.00222
55.25 -0.38613 0.25143 -0.01662 0.00261 -0.00213 55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	54.25	-0.39932	0.25818	-0.01475	0.00279	-0.00207
55.75 -0.38213 0.24703 -0.01476 0.00289 -0.00229 56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	54.75	-0.40667	0.26422	-0.01588	0.00249	-0.00201
56.25 -0.40207 0.25835 -0.01422 0.00279 -0.00222 56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	55.25	-0.38613	0.25143	-0.01662	0.00261	-0.00213
56.75 -0.41188 0.26451 -0.01539 0.00259 -0.00213 57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	55.75	-0.38213	0.24703	-0.01476	0.00289	-0.00229
57.25 -0.39136 0.25138 -0.01354 0.00275 -0.00218 57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	56.25	-0.40207	0.25835	-0.01422	0.00279	-0.00222
57.75 -0.40294 0.26049 -0.01487 0.00289 -0.00203 58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	56.75	-0.41188	0.26451	-0.01539	0.00259	-0.00213
58.25 -0.41308 0.27125 -0.01540 0.00248 -0.00184 58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	57.25	-0.39136	0.25138	-0.01354	0.00275	-0.00218
58.75 -0.38814 0.25634 -0.01352 0.00211 -0.00199 59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	57.75	-0.40294		-0.01487	0.00289	-0.00203
59.25 -0.40879 0.26740 -0.01439 0.00261 -0.00205	58.25	-0.41308	0.27125	-0.01540	0.00248	-0.00184
	58.75	-0.38814	0.25634	-0.01352	0.00211	-0.00199
,	59.25	-0.40879	0.26740	-0.01439	0.00261	-0.00205
59.75	59.75	-0.43740	0.28585	-0.01558	0.00275	-0.00194
						-0.00186
60.75 -0.39151 0.25703 -0.01210 0.00236 -0.00237	60.75	-0.39151	0.25703	-0.01210	0.00236	-0.00237

61.25	-0.37686	0.24447	-0.01056	0.00228	-0.00224
61.75	-0.37864	0.24628	-0.01148	0.00238	-0.00187
62.25	-0.38289	0.25371	-0.01050	0.00193	-0.00171
62.75	-0.39131	0.25691	-0.00940	0.00196	-0.00193
63.25	-0.38388	0.24777	-0.00959	0.00252	-0.00251
63.75	-0.38431	0.25108	-0.00872	0.00237	-0.00247
64.25	-0.37921	0.24897	-0.00830	0.00181	-0.00224
64.75	-0.37389	0.24155	-0.00789	0.00219	-0.00241
65.25	-0.38721	0.25223	-0.00657	0.00238	-0.00210
65.75	-0.39333	0.25597	-0.00531	0.00225	-0.00214
66.25	-0.36888	0.24054	-0.00323	0.00170	-0.00229
66.74	-0.37583	0.24879	-0.00258	0.00137	-0.00213
67.25	-0.38594	0.25666	-0.00150	0.00139	-0.00227
67.75	-0.39056	0.25594	-0.00184	0.00179	-0.00265
68.25	-0.39426	0.25864	-0.00454	0.00203	-0.00239
68.75	-0.38864	0.25872	-0.00413	0.00159	-0.00193
69.25	-0.37399	0.24697	-0.00480	0.00187	-0.00240
69.75	-0.35893	0.24082	-0.00681	0.00175	-0.00216
70.25	-0.35955	0.24224	-0.00733	0.00180	-0.00194
70.75	-0.39403	0.26128	-0.00940	0.00237	-0.00204
71.25	-0.38859	0.25988	-0.01080	0.00237	-0.00208
71.75	-0.36366	0.24621	-0.01064	0.00219	-0.00244
72.25	-0.38412	0.25837	-0.01212	0.00242	-0.00214
72.75	-0.37546	0.25015	-0.01328	0.00289	-0.00232
73.25	-0.36899	0.24683	-0.01249	0.00251	-0.00250
73.75	-0.36084	0.24493	-0.01209	0.00205	-0.00214
74.25	-0.36823	0.25338	-0.01391	0.00216	-0.00194
74.75	-0.36046	0.24709	-0.01633	0.00267	-0.00242
75.25	-0.36101	0.24570	-0.01580	0.00287	-0.00278
75.75	-0.35732	0.24285	-0.01214	0.00225	-0.00264
76.25	-0.35901	0.24140	-0.01312	0.00229	-0.00243
76.75	-0.36734	0.24655	-0.01640	0.00276	-0.00262
77.25	-0.35304	0.24235	-0.01690	0.00260	-0.00231
77.75	-0.34041	0.23587	-0.01433	0.00221	-0.00199
78.25	-0.36117	0.24900	-0.01382	0.00198	-0.00179
78.75	-0.36984	0.25504	-0.01727	0.00260	-0.00190
79.25	-0.33004	0.22842	-0.01562	0.00246	-0.00222
79.75	-0.32021	0.22169	-0.01410	0.00210	-0.00233
80.25	-0.34587	0.23629	-0.01449	0.00251	-0.00247
80.75	-0.33737	0.23602	-0.01370	0.00237	-0.00199
81.25	-0.34079	0.23873	-0.01276	0.00187	-0.00193
81.75	-0.33960	0.23809	-0.01641	0.00233	-0.00188

82.25	-0.35948	0.25363	-0.01348	0.00186	-0.00134
82.75	-0.34262	0.23901	-0.01360	0.00194	-0.00136
83.25	-0.32583	0.22345	-0.01331	0.00216	-0.00174
83.75	-0.31161	0.21725	-0.01181	0.00252	-0.00202
84.26	-0.32851	0.22557	-0.01195	0.00241	-0.00180
84.75	-0.32963	0.23397	-0.01219	0.00179	-0.00136
85.25	-0.33383	0.23432	-0.00933	0.00169	-0.00134
85.75	-0.34661	0.24462	-0.00966	0.00160	-0.00095
86.25	-0.32262	0.23168	-0.00644	0.00088	-0.00086
86.76	-0.31626	0.22196	-0.00679	0.00159	-0.00099
87.25	-0.32097	0.22684	-0.00493	0.00117	-0.00106
87.76	-0.33242	0.23376	-0.00522	0.00119	-0.00087
88.25	-0.31539	0.22464	-0.00347	0.00092	-0.00034
88.75	-0.31015	0.22058	-0.00253	0.00126	-0.00051
89.26	-0.31074	0.22296	-0.00231	0.00098	-0.00003
89.74	-0.31880	0.22544	-0.00128	0.00100	0.00016

Table 28. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ, \ \dot{\varphi}=3 \ ^\circ\!/sec$

		DYNAMIC	ROLL $\phi = 0^{\circ}$ -9	90°	
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}
0.24	-0.31663	0.31803	0.00304	-0.00084	-0.00051
0.74	-0.30760	0.31517	0.00839	-0.00112	-0.00019
1.25	-0.31942	0.32212	0.01297	-0.00156	-0.00074
1.74	-0.31526	0.32381	0.01369	-0.00165	-0.00086
2.25	-0.31448	0.32217	0.01481	-0.00182	-0.00064
2.75	-0.31976	0.32434	0.01419	-0.00163	-0.00118
3.25	-0.31979	0.32636	0.01462	-0.00181	-0.00115
3.74	-0.31575	0.32243	0.01387	-0.00166	-0.00141
4.25	-0.31298	0.31781	0.01255	-0.00133	-0.00142
4.74	-0.29943	0.30939	0.01125	-0.00101	-0.00186
5.25	-0.32308	0.32368	0.01098	-0.00097	-0.00179
5.75	-0.32981	0.32815	0.01028	-0.00114	-0.00151
6.24	-0.32285	0.33004	0.00882	-0.00112	-0.00194
6.75	-0.31619	0.31721	0.00969	-0.00076	-0.00239
7.25	-0.32355	0.32424	0.00975	-0.00103	-0.00238
7.75	-0.31679	0.32273	0.00931	-0.00104	-0.00203
8.25	-0.32763	0.32388	0.00980	-0.00071	-0.00250
8.75	-0.31876	0.31884	0.00808	-0.00034	-0.00254
9.25	-0.32607	0.32593	0.00795	-0.00055	-0.00256
9.75	-0.35375	0.34614	0.00756	-0.00098	-0.00264
10.25	-0.33948	0.33341	0.00796	-0.00069	-0.00275
10.75	-0.33575	0.33115	0.00691	-0.00041	-0.00274
11.25	-0.34360	0.34323	0.00579	-0.00081	-0.00227
11.75	-0.34255	0.34134	0.00621	-0.00106	-0.00230
12.25	-0.33652	0.33080	0.00590	-0.00027	-0.00276
12.75	-0.33408	0.33390	0.00637	-0.00027	-0.00256
13.25	-0.34112	0.34522	0.00505	-0.00088	-0.00212
13.75	-0.34736	0.34902	0.00491	-0.00080	-0.00208
14.25	-0.34780	0.34607	0.00643	-0.00054	-0.00243
14.75	-0.34867	0.33828	0.00508	-0.00006	-0.00252
15.25	-0.34278	0.33275	0.00388	-0.00002	-0.00280
15.75	-0.33577	0.33165	0.00357	-0.00004	-0.00296
16.25	-0.35029	0.34374	0.00411	0.00001	-0.00299
16.75	-0.35441	0.34472	0.00476	-0.00023	-0.00269
17.25	-0.35076	0.33436	0.00409	-0.00007	-0.00276

17.75	-0.36767	0.34555	0.00245	-0.00006	-0.00286
18.25	-0.36410	0.34551	0.00296	0.00010	-0.00289
18.75	-0.35811	0.34082	0.00400	-0.00007	-0.00281
19.25	-0.37735	0.35139	0.00361	0.00012	-0.00302
19.75	-0.38583	0.35891	0.00354	0.00013	-0.00302
20.25	-0.37269	0.35316	0.00402	0.00001	-0.00286
20.75	-0.37364	0.35026	0.00402	-0.00005	-0.00270
21.25	-0.38835	0.35809	0.00413	-0.00031	-0.00272
21.75	-0.38524	0.35549	0.00454	-0.00032	-0.00296
22.25	-0.38054	0.35459	0.00386	-0.00023	-0.00273
22.75	-0.38278	0.35617	0.00193	0.00009	-0.00282
23.25	-0.38691	0.35414	0.00081	0.00052	-0.00297
23.75	-0.37215	0.34719	0.00077	0.00056	-0.00306
24.24	-0.37637	0.35351	0.00083	0.00026	-0.00276
24.74	-0.37230	0.34927	0.00035	0.00011	-0.00279
25.24	-0.36265	0.34127	-0.00046	0.00041	-0.00310
25.74	-0.36299	0.34047	0.00018	0.00036	-0.00293
26.24	-0.37200	0.34964	-0.00120	0.00042	-0.00276
26.75	-0.36928	0.34983	-0.00285	0.00079	-0.00328
27.25	-0.38589	0.36094	-0.00231	0.00070	-0.00329
27.75	-0.38819	0.36237	-0.00239	0.00032	-0.00273
28.25	-0.38104	0.35191	-0.00347	0.00080	-0.00301
28.75	-0.38866	0.35651	-0.00324	0.00080	-0.00306
29.25	-0.37620	0.35304	-0.00369	0.00047	-0.00281
29.75	-0.36595	0.34584	-0.00439	0.00055	-0.00313
30.25	-0.37321	0.34576	-0.00355	0.00063	-0.00322
30.75	-0.36799	0.34160	-0.00450	0.00088	-0.00324
31.25	-0.36430	0.34396	-0.00554	0.00109	-0.00329
31.75	-0.38793	0.35543	-0.00451	0.00102	-0.00318
32.25	-0.37242	0.33975	-0.00383	0.00117	-0.00337
32.75	-0.36800	0.33944	-0.00286	0.00088	-0.00327
33.25	-0.39358	0.35786	-0.00473	0.00095	-0.00335
33.75	-0.39774	0.36232	-0.00685	0.00098	-0.00357
34.25	-0.39819	0.36817	-0.00651	0.00066	-0.00337
34.75	-0.39627	0.36251	-0.00521	0.00070	-0.00313
35.25	-0.39631	0.35268	-0.00423	0.00079	-0.00311
35.75	-0.37207	0.33630	-0.00308	0.00048	-0.00323

36.25 -0.36016 0.33096 -0.00412 0.00059 -0.00342 36.75 -0.36221 0.33203 -0.00587 0.00103 -0.00351 37.25 -0.37218 0.33358 -0.00556 0.00149 -0.00386 37.75 -0.39581 0.35408 -0.00618 0.00112 -0.00346 38.25 -0.38079 0.35782 -0.00493 0.00081 -0.00346 38.75 -0.38079 0.34461 -0.00229 0.00035 -0.00377 39.25 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00346 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.75 -0.37430 0.33958 -0.00223 0.00081 -0.00346 42.25 -0.36712 0.33259 -0.0014 0.00087 -0.00357 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00357 <						
37.25 -0.37218 0.33358 -0.00556 0.00149 -0.00386 37.75 -0.39581 0.35408 -0.00618 0.00112 -0.00348 38.25 -0.39799 0.35782 -0.00493 0.00081 -0.00346 38.75 -0.38079 0.34461 -0.00229 0.00035 -0.00377 39.25 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36612 0.32840 -0.0026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00342 <t< td=""><td>36.25</td><td>-0.36016</td><td>0.33096</td><td>-0.00412</td><td>0.00059</td><td>-0.00342</td></t<>	36.25	-0.36016	0.33096	-0.00412	0.00059	-0.00342
37.75 -0.39581 0.35408 -0.00618 0.00112 -0.00348 38.25 -0.39799 0.35782 -0.00493 0.00081 -0.00346 38.75 -0.38079 0.34461 -0.00229 0.00035 -0.00377 39.25 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00353 41.25 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36602 0.32840 -0.0026 0.0088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00351 43.25 -0.40738 0.35073 -0.0082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00342	36.75	-0.36221	0.33203	-0.00587	0.00103	-0.00351
38.25 -0.39799 0.35782 -0.00493 0.00081 -0.00346 38.75 -0.38079 0.34461 -0.00229 0.00035 -0.00377 39.25 -0.37928 0.34255 -0.00079 0.00017 -0.00388 39.76 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36612 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00351 43.25 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 <	37.25	-0.37218	0.33358	-0.00556	0.00149	-0.00386
38.75 -0.38079 0.34461 -0.00229 0.00035 -0.00377 39.25 -0.37928 0.34255 -0.00079 0.00017 -0.00388 39.76 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.25 -0.36712 0.33259 -0.00164 0.00088 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00331 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 <	37.75	-0.39581	0.35408	-0.00618	0.00112	-0.00348
39.25 -0.37928 0.34255 -0.00079 0.00017 -0.00388 39.76 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40736 0.34756 -0.00133 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.75	38.25	-0.39799	0.35782	-0.00493	0.00081	-0.00346
39.76 -0.37149 0.33639 -0.00277 0.00059 -0.00346 40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.25 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00332 47.25	38.75	-0.38079	0.34461	-0.00229	0.00035	-0.00377
40.26 -0.37205 0.33577 -0.00415 0.00099 -0.00336 40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00351 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329	39.25	-0.37928	0.34255	-0.00079	0.00017	-0.00388
40.75 -0.37190 0.33131 -0.00353 0.00140 -0.00413 41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00351 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329	39.76	-0.37149	0.33639	-0.00277	0.00059	-0.00346
41.25 -0.37598 0.33802 -0.00223 0.00081 -0.00383 41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00331 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.37294 0.32906 0.00046 0.00043 -0.00345	40.26	-0.37205	0.33577	-0.00415	0.00099	-0.00336
41.75 -0.37430 0.33958 -0.00208 0.00060 -0.00357 42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00351 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345	40.75	-0.37190	0.33131	-0.00353	0.00140	-0.00413
42.25 -0.36712 0.33259 -0.00164 0.00087 -0.00379 42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00331 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384	41.25	-0.37598	0.33802	-0.00223	0.00081	-0.00383
42.75 -0.36602 0.32840 -0.00026 0.00088 -0.00351 43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00331 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401	41.75	-0.37430	0.33958	-0.00208	0.00060	-0.00357
43.25 -0.40376 0.34756 -0.00133 0.00103 -0.00331 43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00345 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37792 0.32480 -0.00284 0.00082 -0.00412	42.25	-0.36712	0.33259	-0.00164	0.00087	-0.00379
43.75 -0.40738 0.35073 -0.00082 0.00103 -0.00358 44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37841 0.32108 -0.00332 0.00097 -0.00412	42.75	-0.36602	0.32840	-0.00026	0.00088	-0.00351
44.25 -0.39604 0.34641 0.00073 0.00072 -0.00345 44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.38298 0.32865 -0.00452 0.00117 -0.00409	43.25	-0.40376	0.34756	-0.00133	0.00103	-0.00331
44.75 -0.39799 0.34514 0.00147 0.00075 -0.00342 45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.38811 0.32108 -0.00332 0.0017 -0.00409 50.25 -0.38298 0.32865 -0.00502 0.00108 -0.00384	43.75	-0.40738	0.35073	-0.00082	0.00103	-0.00358
45.25 -0.39446 0.34598 0.00008 0.00079 -0.00362 45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.38298 0.32865 -0.00452 0.00117 -0.00435 50.25 -0.38812 0.3265 -0.00573 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00070 -0.00438	44.25	-0.39604	0.34641	0.00073	0.00072	-0.00345
45.75 -0.37850 0.33652 0.00037 0.00045 -0.00349 46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38414 0.33180 -0.00573 0.00081 -0.00384 51.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447	44.75	-0.39799	0.34514	0.00147	0.00075	-0.00342
46.25 -0.38325 0.33747 0.00106 0.00045 -0.00329 46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 <tr< td=""><td>45.25</td><td>-0.39446</td><td>0.34598</td><td>0.00008</td><td>0.00079</td><td>-0.00362</td></tr<>	45.25	-0.39446	0.34598	0.00008	0.00079	-0.00362
46.75 -0.38590 0.33951 0.00063 0.00071 -0.00333 47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 <t< td=""><td>45.75</td><td>-0.37850</td><td>0.33652</td><td>0.00037</td><td>0.00045</td><td>-0.00349</td></t<>	45.75	-0.37850	0.33652	0.00037	0.00045	-0.00349
47.25 -0.37294 0.32906 0.00046 0.00043 -0.00345 47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00431 <	46.25	-0.38325	0.33747	0.00106	0.00045	-0.00329
47.75 -0.36476 0.31785 -0.00144 0.00083 -0.00384 48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37195 0.32273 -0.00660 0.00098 -0.00445 <td>46.75</td> <td>-0.38590</td> <td>0.33951</td> <td>0.00063</td> <td>0.00071</td> <td>-0.00333</td>	46.75	-0.38590	0.33951	0.00063	0.00071	-0.00333
48.25 -0.36649 0.31850 -0.00256 0.00118 -0.00401 48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	47.25	-0.37294	0.32906	0.00046	0.00043	-0.00345
48.75 -0.37562 0.32693 -0.00269 0.00090 -0.00400 49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	47.75	-0.36476	0.31785	-0.00144	0.00083	-0.00384
49.25 -0.37792 0.32480 -0.00284 0.00082 -0.00412 49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	48.25	-0.36649	0.31850	-0.00256	0.00118	-0.00401
49.75 -0.37841 0.32108 -0.00332 0.00097 -0.00435 50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	48.75	-0.37562	0.32693	-0.00269	0.00090	-0.00400
50.25 -0.38298 0.32865 -0.00452 0.00117 -0.00409 50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	49.25	-0.37792	0.32480	-0.00284	0.00082	-0.00412
50.75 -0.38812 0.33265 -0.00502 0.00108 -0.00384 51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	49.75	-0.37841	0.32108	-0.00332	0.00097	-0.00435
51.25 -0.38444 0.33180 -0.00573 0.00081 -0.00390 51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	50.25	-0.38298	0.32865	-0.00452	0.00117	-0.00409
51.75 -0.37436 0.32553 -0.00529 0.00070 -0.00438 52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	50.75	-0.38812	0.33265	-0.00502	0.00108	-0.00384
52.25 -0.38031 0.32497 -0.00561 0.00106 -0.00447 52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	51.25	-0.38444	0.33180	-0.00573	0.00081	-0.00390
52.75 -0.39033 0.33349 -0.00721 0.00103 -0.00409 53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	51.75	-0.37436	0.32553	-0.00529	0.00070	-0.00438
53.25 -0.37444 0.32776 -0.00786 0.00108 -0.00431 53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	52.25	-0.38031	0.32497	-0.00561	0.00106	-0.00447
53.75 -0.37195 0.32273 -0.00660 0.00098 -0.00445	52.75	-0.39033	0.33349	-0.00721	0.00103	-0.00409
	53.25	-0.37444	0.32776	-0.00786	0.00108	-0.00431
54.25 -0.36572 0.31489 -0.00621 0.00073 -0.00412	53.75	-0.37195	0.32273	-0.00660	0.00098	-0.00445
	54.25	-0.36572	0.31489	-0.00621	0.00073	-0.00412

54.75	-0.35706	0.30779	-0.00878	0.00116	-0.00414
55.25	-0.36807	0.31742	-0.00975	0.00107	-0.00400
55.75	-0.38400	0.33146	-0.01011	0.00085	-0.00357
56.25	-0.38454	0.32721	-0.01005	0.00114	-0.00406
56.75	-0.38171	0.32302	-0.00920	0.00091	-0.00401
57.25	-0.36966	0.31529	-0.00834	0.00062	-0.00410
57.75	-0.36551	0.31156	-0.00957	0.00108	-0.00437
58.25	-0.37634	0.31679	-0.01034	0.00124	-0.00434
58.75	-0.37615	0.31430	-0.00935	0.00134	-0.00432
59.25	-0.36603	0.30988	-0.00883	0.00137	-0.00445
59.75	-0.36071	0.30817	-0.00903	0.00117	-0.00438
60.25	-0.36733	0.31202	-0.00827	0.00076	-0.00393
60.75	-0.36452	0.30870	-0.00751	0.00076	-0.00417
61.25	-0.38150	0.31875	-0.00792	0.00097	-0.00411
61.75	-0.38229	0.31525	-0.00744	0.00089	-0.00405
62.25	-0.37625	0.31106	-0.00819	0.00095	-0.00437
62.75	-0.37779	0.30646	-0.00634	0.00111	-0.00451
63.25	-0.39023	0.31447	-0.00425	0.00051	-0.00422
63.75	-0.36933	0.30409	-0.00206	-0.00017	-0.00441
64.25	-0.36552	0.29641	-0.00181	0.00045	-0.00473
64.75	-0.36558	0.29467	-0.00204	0.00074	-0.00478
65.25	-0.37053	0.29904	-0.00260	0.00072	-0.00494
65.75	-0.39401	0.31605	-0.00390	0.00076	-0.00466
66.25	-0.39127	0.31358	0.00077	0.00063	-0.00477
66.75	-0.39295	0.30943	0.00315	0.00076	-0.00518
67.26	-0.40419	0.31496	0.00233	0.00061	-0.00477
67.75	-0.37667	0.29510	0.00233	0.00039	-0.00464
68.25	-0.36708	0.28982	0.00098	0.00047	-0.00462
68.75	-0.37352	0.29999	0.00066	0.00006	-0.00405
69.25	-0.37501	0.30339	0.00018	-0.00025	-0.00411
69.75	-0.37227	0.29476	-0.00055	0.00051	-0.00458
70.25	-0.37346	0.29565	-0.00250	0.00055	-0.00469
70.75	-0.38481	0.30334	-0.00526	0.00047	-0.00468
71.25	-0.37867	0.29965	-0.00597	0.00057	-0.00464
71.75	-0.38418	0.30533	-0.00414	0.00015	-0.00436
72.25	-0.38320	0.30022	-0.00462	0.00041	-0.00466
72.75	-0.36765	0.28314	-0.00485	0.00071	-0.00511

Т		I		T	T
73.25	-0.36568	0.28059	-0.00585	0.00088	-0.00517
73.75	-0.37104	0.28719	-0.00765	0.00103	-0.00495
74.25	-0.37495	0.29286	-0.00753	0.00064	-0.00455
74.75	-0.36965	0.28618	-0.00815	0.00070	-0.00434
75.25	-0.39877	0.30084	-0.01058	0.00136	-0.00504
75.75	-0.40880	0.30574	-0.01056	0.00139	-0.00506
76.25	-0.39472	0.29911	-0.00965	0.00071	-0.00451
76.75	-0.38247	0.29273	-0.00914	0.00047	-0.00454
77.25	-0.39445	0.29882	-0.00952	0.00094	-0.00485
77.75	-0.37896	0.28753	-0.00955	0.00075	-0.00490
78.25	-0.35800	0.27353	-0.01010	0.00053	-0.00464
78.75	-0.36427	0.27863	-0.00925	0.00062	-0.00470
79.25	-0.39330	0.29630	-0.01250	0.00089	-0.00433
79.75	-0.39651	0.29354	-0.01053	0.00097	-0.00437
80.25	-0.39588	0.29445	-0.00879	0.00051	-0.00417
80.75	-0.38482	0.28528	-0.01029	0.00055	-0.00397
81.25	-0.37133	0.26835	-0.01017	0.00111	-0.00458
81.75	-0.36744	0.27052	-0.00984	0.00117	-0.00429
82.25	-0.35436	0.26591	-0.00738	0.00059	-0.00446
82.75	-0.37379	0.27619	-0.00765	0.00057	-0.00418
83.25	-0.37871	0.27856	-0.00887	0.00094	-0.00414
83.75	-0.38135	0.27895	-0.00704	0.00042	-0.00367
84.26	-0.37907	0.27635	-0.00764	0.00032	-0.00350
84.75	-0.39135	0.28534	-0.00541	-0.00012	-0.00306
85.25	-0.40370	0.29386	-0.00506	0.00007	-0.00305
85.75	-0.39571	0.28106	-0.00303	0.00030	-0.00340
86.25	-0.37827	0.27102	-0.00353	0.00018	-0.00341
86.76	-0.39831	0.28345	-0.00127	0.00009	-0.00306
87.25	-0.36576	0.25810	-0.00200	0.00057	-0.00347
87.76	-0.38193	0.26979	0.00084	-0.00016	-0.00294
88.25	-0.41028	0.28472	-0.00087	0.00036	-0.00306
88.75	-0.37652	0.26622	0.00312	-0.00060	-0.00270
89.26	-0.36729	0.25872	0.00419	-0.00030	-0.00248
89.74	-0.39168	0.27411	0.00390	-0.00050	-0.00190

Table 29. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=5^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	ROLL $\phi = 0^{\circ}-9$	0°	
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}
0.24	-0.00901	0.31850	-0.02807	0.00711	0.00309
0.74	-0.01822	0.31967	-0.02389	0.00729	0.00304
1.25	0.00477	0.31104	-0.01730	0.00626	0.00253
1.74	-0.00513	0.31878	-0.01841	0.00674	0.00247
2.25	-0.01030	0.31730	-0.01677	0.00671	0.00196
2.75	0.00012	0.31650	-0.01643	0.00606	0.00187
3.25	-0.01870	0.32686	-0.01919	0.00718	0.00131
3.74	-0.00069	0.31639	-0.01781	0.00690	0.00113
4.25	-0.00340	0.31709	-0.01869	0.00665	0.00143
4.74	0.00827	0.30947	-0.01807	0.00676	0.00082
5.25	-0.00386	0.31772	-0.02069	0.00720	0.00112
5.75	0.00068	0.31340	-0.02167	0.00779	0.00075
6.24	-0.00134	0.32027	-0.02201	0.00744	0.00103
6.75	-0.01621	0.32706	-0.02439	0.00743	0.00054
7.25	-0.00858	0.31797	-0.02227	0.00759	0.00014
7.75	-0.02658	0.32846	-0.02268	0.00760	0.00033
8.25	-0.01325	0.32657	-0.02422	0.00716	0.00048
8.75	-0.01324	0.32662	-0.02365	0.00746	0.00043
9.25	-0.03026	0.32906	-0.02365	0.00790	0.00027
9.75	-0.03310	0.32219	-0.02407	0.00810	-0.00032
10.25	-0.04297	0.33111	-0.02585	0.00836	-0.00041
10.75	-0.03173	0.33995	-0.02589	0.00773	0.00014
11.25	-0.03498	0.34556	-0.02626	0.00772	0.00014
11.75	-0.03333	0.33600	-0.02705	0.00793	-0.00049
12.25	-0.02928	0.33111	-0.02654	0.00811	-0.00078
12.75	-0.03284	0.33675	-0.02617	0.00805	-0.00006
13.25	-0.03684	0.33940	-0.02810	0.00815	-0.00016
13.75	-0.03053	0.33559	-0.03062	0.00843	-0.00031
14.25	-0.04987	0.34664	-0.02890	0.00842	-0.00039
14.75	-0.06560	0.35411	-0.02703	0.00838	-0.00028
15.25	-0.05712	0.34811	-0.02639	0.00797	-0.00053
15.75	-0.05144	0.34094	-0.02887	0.00840	-0.00090
16.25	-0.05236	0.33713	-0.02975	0.00881	-0.00092
16.75	-0.05812	0.33768	-0.03004	0.00888	-0.00072
17.25	-0.07682	0.35266	-0.03091	0.00853	-0.00052

			1		
17.75	-0.08590	0.36373	-0.03136	0.00851	-0.00081
18.25	-0.06546	0.34989	-0.03061	0.00846	-0.00151
18.75	-0.06914	0.34839	-0.02815	0.00817	-0.00123
19.25	-0.08575	0.35207	-0.02801	0.00836	-0.00083
19.75	-0.09992	0.36006	-0.03080	0.00867	-0.00112
20.25	-0.07977	0.34831	-0.03094	0.00855	-0.00121
20.75	-0.08103	0.34467	-0.02855	0.00862	-0.00116
21.25	-0.10305	0.36099	-0.02905	0.00884	-0.00147
21.75	-0.11033	0.36704	-0.03005	0.00856	-0.00121
22.25	-0.12492	0.36803	-0.03134	0.00859	-0.00088
22.75	-0.11022	0.35428	-0.03160	0.00885	-0.00132
23.25	-0.09337	0.35024	-0.02965	0.00833	-0.00100
23.75	-0.09617	0.35089	-0.03229	0.00880	-0.00082
24.25	-0.11192	0.35864	-0.03479	0.00919	-0.00136
24.75	-0.09551	0.34686	-0.03372	0.00928	-0.00184
25.24	-0.10131	0.34954	-0.03214	0.00920	-0.00124
25.74	-0.11099	0.35318	-0.03334	0.00918	-0.00108
26.24	-0.10624	0.34730	-0.03561	0.00935	-0.00158
26.74	-0.10037	0.34484	-0.03509	0.00938	-0.00168
27.25	-0.09649	0.34142	-0.03208	0.00902	-0.00145
27.75	-0.11673	0.35052	-0.03543	0.00958	-0.00142
28.25	-0.12399	0.35151	-0.03945	0.01024	-0.00167
28.75	-0.10869	0.34427	-0.03823	0.00977	-0.00208
29.25	-0.09599	0.33440	-0.03526	0.00916	-0.00199
29.75	-0.10851	0.33811	-0.03640	0.00907	-0.00163
30.25	-0.12735	0.34774	-0.03781	0.00953	-0.00209
30.75	-0.12819	0.35052	-0.03868	0.00977	-0.00215
31.25	-0.12788	0.35051	-0.03988	0.00976	-0.00185
31.75	-0.13503	0.35660	-0.04202	0.00977	-0.00181
32.25	-0.14569	0.35973	-0.04109	0.00962	-0.00180
32.75	-0.14946	0.35844	-0.03759	0.00908	-0.00183
33.25	-0.13887	0.34921	-0.03680	0.00921	-0.00219
33.75	-0.15124	0.35026	-0.03941	0.00966	-0.00224
34.25	-0.15785	0.35470	-0.04153	0.01015	-0.00219
34.75	-0.15051	0.35362	-0.04160	0.01032	-0.00251
35.25	-0.16900	0.35759	-0.04123	0.01047	-0.00275
35.75	-0.17308	0.36144	-0.04041	0.00974	-0.00239

36.25	-0.15960	0.35387	-0.03915	0.00953	-0.00216
36.75	-0.15600	0.34001	-0.03794	0.01018	-0.00269
37.25	-0.16328	0.33810	-0.04040	0.01058	-0.00315
37.75	-0.19190	0.35968	-0.04074	0.01018	-0.00279
38.25	-0.19108	0.36058	-0.03914	0.01011	-0.00265
38.75	-0.18078	0.35282	-0.03950	0.01056	-0.00291
39.25	-0.19664	0.35609	-0.03822	0.01026	-0.00326
39.76	-0.19871	0.35261	-0.03528	0.00975	-0.00300
40.26	-0.17459	0.33590	-0.03445	0.00976	-0.00307
40.76	-0.17658	0.34134	-0.03501	0.00940	-0.00318
41.25	-0.19769	0.35253	-0.03527	0.00934	-0.00286
41.75	-0.21999	0.36051	-0.03659	0.00985	-0.00307
42.25	-0.23206	0.37003	-0.03528	0.00940	-0.00292
42.75	-0.21411	0.35643	-0.03404	0.00950	-0.00298
43.25	-0.20929	0.34842	-0.03407	0.00977	-0.00340
43.75	-0.23204	0.35541	-0.03265	0.00976	-0.00396
44.25	-0.22329	0.34592	-0.03031	0.00999	-0.00436
44.75	-0.22407	0.34099	-0.03004	0.00999	-0.00401
45.25	-0.23254	0.34354	-0.03011	0.00940	-0.00367
45.75	-0.21839	0.33851	-0.03192	0.00928	-0.00366
46.25	-0.22088	0.34168	-0.03288	0.00935	-0.00377
46.75	-0.23020	0.34332	-0.03241	0.00933	-0.00378
47.25	-0.23906	0.34084	-0.03301	0.00977	-0.00411
47.75	-0.24022	0.34014	-0.03362	0.00973	-0.00411
48.25	-0.24609	0.34427	-0.03528	0.00986	-0.00430
48.75	-0.23599	0.33730	-0.03575	0.00982	-0.00440
49.25	-0.23611	0.33146	-0.03673	0.01003	-0.00448
49.75	-0.24456	0.33648	-0.03803	0.00992	-0.00404
50.25	-0.25013	0.33668	-0.03781	0.01018	-0.00373
50.75	-0.26664	0.34543	-0.03869	0.01026	-0.00357
51.25	-0.27106	0.34678	-0.03808	0.00980	-0.00348
51.75	-0.26770	0.33754	-0.03836	0.00989	-0.00343
52.25	-0.28463	0.34426	-0.04013	0.01044	-0.00355
52.75	-0.29276	0.35155	-0.04034	0.01028	-0.00358
53.25	-0.29429	0.35382	-0.03992	0.00971	-0.00341
53.75	-0.29249	0.35367	-0.03887	0.00928	-0.00294
54.25	-0.28009	0.34164	-0.03924	0.00965	-0.00303

54.75 -0.28898 0.33985 -0.04007 0.00991 -0.00308 55.25 -0.29530 0.34223 -0.04048 0.01007 -0.00288 55.75 -0.29387 0.34470 -0.04189 0.01014 -0.00253 56.25 -0.30109 0.34880 -0.04241 0.00999 -0.00249 56.75 -0.3226 0.34471 -0.04383 0.01031 -0.00294 57.25 -0.32497 0.35848 -0.04262 0.01004 -0.00292 57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00282 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00276 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00285 60.25 -0.31889 0.33028 -0.03818 0.00966 -0.00285 61.25 -0.31889 0.33028 -0.03825 0.01011 -0.00285 <						
55.75 -0.29387 0.34470 -0.04189 0.01014 -0.00253 56.25 -0.30109 0.34880 -0.04241 0.00999 -0.00249 56.75 -0.30226 0.34471 -0.04383 0.01031 -0.00294 57.25 -0.32497 0.35848 -0.04092 0.01029 -0.00282 57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00273 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00276 58.25 -0.29272 0.32354 -0.04078 0.01010 -0.00276 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00285 60.25 -0.30685 0.33089 -0.03818 0.00966 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00283 61.25 -0.31188 0.32729 -0.03955 0.00991 -0.00234	54.75	-0.28898	0.33985	-0.04007	0.00991	-0.00308
56.25 -0.30109 0.34880 -0.04241 0.00999 -0.00249 56.75 -0.30226 0.34471 -0.04383 0.01031 -0.00294 57.25 -0.32497 0.35848 -0.04262 0.01004 -0.00292 57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00282 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00273 58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00265 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233	55.25	-0.29530	0.34223	-0.04048	0.01007	-0.00288
56.75 -0.30226 0.34471 -0.04383 0.01031 -0.00294 57.25 -0.32497 0.35848 -0.04262 0.01004 -0.00292 57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00282 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00276 58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00265 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00285 60.25 -0.30685 0.33089 -0.03818 0.00966 -0.00285 61.25 -0.31890 0.32450 -0.03825 0.01011 -0.00285 61.25 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00991 -0.00266 63.25 -0.34976 0.34527 -0.03588 0.00911 -0.00266	55.75	-0.29387	0.34470	-0.04189	0.01014	-0.00253
57.25 -0.32497 0.35848 -0.04262 0.01004 -0.00292 57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00282 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00273 58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00265 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00966 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.3190 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.3188 0.32729 -0.03955 0.00911 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.334976 0.34527 -0.03588 0.00911 -0.00266 <	56.25	-0.30109	0.34880	-0.04241	0.00999	-0.00249
57.75 -0.30825 0.34176 -0.04092 0.01029 -0.00282 58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00273 58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00276 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.0094 -0.00263 <	56.75	-0.30226	0.34471	-0.04383	0.01031	-0.00294
58.25 -0.29455 0.32836 -0.04075 0.01030 -0.00273 58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00276 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.0282 60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.33720 0.33374 -0.03412 0.00894 -0.00263 <	57.25	-0.32497	0.35848	-0.04262	0.01004	-0.00292
58.75 -0.29272 0.32354 -0.04078 0.01010 -0.00276 59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00966 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03582 0.00904 -0.00283 63.25 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33738 0.33265 -0.03472 0.00894 -0.00266	57.75	-0.30825	0.34176	-0.04092	0.01029	-0.00282
59.25 -0.30136 0.33134 -0.04150 0.00986 -0.00265 59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33738 0.33265 -0.03472 0.00894 -0.00263 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243	58.25	-0.29455	0.32836	-0.04075	0.01030	-0.00273
59.75 -0.30705 0.33744 -0.04141 0.01003 -0.00282 60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 65.25 -0.34522 0.33342 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.32432 -0.03465 0.00841 -0.00242	58.75	-0.29272	0.32354	-0.04078	0.01010	-0.00276
60.25 -0.30685 0.33089 -0.03818 0.00963 -0.00285 60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33521 0.32432 -0.02968 0.00841 -0.00242	59.25	-0.30136	0.33134	-0.04150	0.00986	-0.00265
60.75 -0.31889 0.33028 -0.03631 0.00966 -0.00285 61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33738 0.33265 -0.03472 0.00894 -0.00263 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 67.25 -0.33564 0.32044 -0.02787 0.00837 -0.00291	59.75	-0.30705	0.33744	-0.04141	0.01003	-0.00282
61.25 -0.31390 0.32450 -0.03825 0.01011 -0.00281 61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 67.75 -0.33564 0.32044 -0.02787 0.00886 -0.00291	60.25	-0.30685	0.33089	-0.03818	0.00963	-0.00285
61.75 -0.31188 0.32729 -0.03955 0.00991 -0.00234 62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283	60.75	-0.31889	0.33028	-0.03631	0.00966	-0.00285
62.25 -0.31046 0.32707 -0.03725 0.00926 -0.00233 62.75 -0.32948 0.33508 -0.03588 0.00911 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260	61.25	-0.31390	0.32450	-0.03825	0.01011	-0.00281
62.75 -0.32948 0.33508 -0.03588 0.00904 -0.00266 63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00905 -0.00268	61.75	-0.31188	0.32729	-0.03955	0.00991	-0.00234
63.25 -0.34976 0.34527 -0.03542 0.00904 -0.00283 63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247	62.25	-0.31046	0.32707	-0.03725	0.00926	-0.00233
63.75 -0.34896 0.34194 -0.03412 0.00895 -0.00268 64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.35269 0.31456 -0.03453 0.00957 -0.00289	62.75	-0.32948	0.33508	-0.03588	0.00911	-0.00266
64.25 -0.33720 0.33374 -0.03459 0.00910 -0.00263 64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.34695 0.31456 -0.03453 0.00957 -0.00301	63.25	-0.34976	0.34527	-0.03542	0.00904	-0.00283
64.75 -0.33738 0.33265 -0.03472 0.00894 -0.00256 65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.3592 0.30848 -0.03453 0.00935 -0.00289 70.25 -0.34695 0.31654 -0.03465 0.00948 -0.00296 <	63.75	-0.34896	0.34194	-0.03412	0.00895	-0.00268
65.25 -0.34522 0.33342 -0.03151 0.00865 -0.00243 65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35036 0.31368 -0.03700 0.00934 -0.00260	64.25	-0.33720	0.33374	-0.03459	0.00910	-0.00263
65.75 -0.33522 0.32432 -0.02968 0.00841 -0.00242 66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00937 -0.00272	64.75	-0.33738	0.33265	-0.03472	0.00894	-0.00256
66.24 -0.32674 0.31770 -0.02965 0.00843 -0.00239 66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00937 -0.00272	65.25	-0.34522	0.33342	-0.03151	0.00865	-0.00243
66.75 -0.33564 0.32044 -0.02787 0.00837 -0.00291 67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	65.75	-0.33522	0.32432	-0.02968	0.00841	-0.00242
67.25 -0.33251 0.31806 -0.02830 0.00851 -0.00283 67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	66.24	-0.32674	0.31770	-0.02965	0.00843	-0.00239
67.75 -0.33685 0.32095 -0.02974 0.00886 -0.00260 68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	66.75	-0.33564	0.32044	-0.02787	0.00837	-0.00291
68.25 -0.33958 0.31888 -0.03118 0.00927 -0.00293 68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	67.25	-0.33251	0.31806	-0.02830	0.00851	-0.00283
68.75 -0.34949 0.32446 -0.03198 0.00905 -0.00268 69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	67.75	-0.33685	0.32095	-0.02974	0.00886	-0.00260
69.25 -0.35076 0.32398 -0.03217 0.00862 -0.00247 69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	68.25	-0.33958	0.31888	-0.03118	0.00927	-0.00293
69.75 -0.33592 0.30848 -0.03373 0.00935 -0.00289 70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	68.75	-0.34949	0.32446	-0.03198	0.00905	-0.00268
70.25 -0.34695 0.31456 -0.03453 0.00957 -0.00301 70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	69.25	-0.35076	0.32398	-0.03217	0.00862	-0.00247
70.75 -0.35269 0.31654 -0.03465 0.00948 -0.00296 71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	69.75	-0.33592	0.30848	-0.03373	0.00935	-0.00289
71.25 -0.35036 0.31368 -0.03700 0.00934 -0.00260 71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	70.25	-0.34695	0.31456	-0.03453	0.00957	-0.00301
71.75 -0.36580 0.32228 -0.03992 0.00957 -0.00272 72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	70.75	-0.35269	0.31654	-0.03465	0.00948	-0.00296
72.25 -0.35872 0.32013 -0.03900 0.00937 -0.00275	71.25	-0.35036	0.31368	-0.03700	0.00934	-0.00260
	71.75	-0.36580	0.32228	-0.03992	0.00957	-0.00272
72.75 -0.34881 0.31306 -0.03682 0.00905 -0.00278	72.25	-0.35872	0.32013	-0.03900	0.00937	-0.00275
	72.75	-0.34881	0.31306	-0.03682	0.00905	-0.00278

I		I			T
73.25	-0.35359	0.31211	-0.03850	0.00946	-0.00280
73.75	-0.34982	0.30713	-0.04155	0.00992	-0.00301
74.25	-0.33644	0.29831	-0.04161	0.00982	-0.00303
74.75	-0.34386	0.30291	-0.04020	0.00911	-0.00276
75.25	-0.36015	0.31110	-0.04025	0.00893	-0.00270
75.75	-0.35987	0.31028	-0.04084	0.00902	-0.00229
76.25	-0.36128	0.30740	-0.04034	0.00927	-0.00255
76.75	-0.37337	0.31023	-0.04017	0.00939	-0.00251
77.25	-0.38680	0.31852	-0.04214	0.00916	-0.00210
77.75	-0.38379	0.31760	-0.04387	0.00905	-0.00212
78.25	-0.37581	0.30900	-0.04141	0.00900	-0.00196
78.75	-0.38838	0.31398	-0.04106	0.00896	-0.00213
79.25	-0.39542	0.31451	-0.04221	0.00928	-0.00236
79.75	-0.37477	0.30294	-0.04135	0.00885	-0.00206
80.25	-0.36387	0.29559	-0.04001	0.00890	-0.00232
80.75	-0.36971	0.29620	-0.04117	0.00896	-0.00215
81.25	-0.38174	0.30268	-0.04166	0.00900	-0.00196
81.75	-0.38567	0.30451	-0.04256	0.00924	-0.00180
82.25	-0.39991	0.31359	-0.04339	0.00903	-0.00160
82.75	-0.39336	0.30352	-0.04086	0.00933	-0.00171
83.25	-0.39000	0.29671	-0.03955	0.00926	-0.00148
83.75	-0.39173	0.29770	-0.04113	0.00935	-0.00155
84.26	-0.39971	0.30153	-0.03904	0.00875	-0.00099
84.75	-0.39458	0.29794	-0.03688	0.00899	-0.00138
85.25	-0.38739	0.28869	-0.03646	0.00834	-0.00122
85.75	-0.40183	0.29741	-0.03647	0.00882	-0.00077
86.25	-0.41172	0.29813	-0.03438	0.00854	-0.00075
86.76	-0.41898	0.30158	-0.03211	0.00829	-0.00085
87.25	-0.41113	0.28938	-0.03249	0.00854	-0.00107
87.76	-0.40953	0.29106	-0.03150	0.00849	-0.00053
88.25	-0.40888	0.29262	-0.03100	0.00805	-0.00033
88.75	-0.40617	0.28801	-0.03056	0.00821	-0.00010
89.26	-0.40685	0.28782	-0.02909	0.00788	0.00034
89.74	-0.41191	0.28923	-0.02820	0.00782	0.00091

Table 30. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9^{\circ}$	0°	
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}
0.24	0.14012	0.35517	-0.03938	0.00822	0.00319
0.74	0.14182	0.35554	-0.03379	0.00780	0.00309
1.25	0.13756	0.35405	-0.02873	0.00775	0.00238
1.73	0.12889	0.36173	-0.02782	0.00785	0.00156
2.25	0.12358	0.36569	-0.02890	0.00795	0.00154
2.75	0.13830	0.35228	-0.02928	0.00834	0.00109
3.25	0.13955	0.35352	-0.02993	0.00797	0.00156
3.75	0.13590	0.36161	-0.03210	0.00816	0.00152
4.25	0.11879	0.37081	-0.03165	0.00813	0.00184
4.74	0.13174	0.35772	-0.03156	0.00845	0.00077
5.25	0.12128	0.36944	-0.03194	0.00839	0.00102
5.75	0.12455	0.35723	-0.03252	0.00880	0.00117
6.24	0.13771	0.35685	-0.03281	0.00836	0.00064
6.75	0.10527	0.38404	-0.03396	0.00811	0.00135
7.25	0.11018	0.37483	-0.03541	0.00887	0.00062
7.74	0.11583	0.35880	-0.03436	0.00888	-0.00008
8.25	0.12458	0.36095	-0.03428	0.00853	0.00042
8.75	0.13714	0.36279	-0.03560	0.00833	0.00063
9.25	0.12395	0.36770	-0.03725	0.00821	0.00060
9.75	0.10596	0.37435	-0.03699	0.00882	0.00026
10.25	0.11775	0.36790	-0.03657	0.00872	0.00031
10.75	0.12459	0.36891	-0.04002	0.00922	-0.00021
11.25	0.12009	0.37380	-0.04101	0.00894	0.00011
11.75	0.11465	0.37608	-0.04099	0.00870	0.00049
12.25	0.11220	0.37815	-0.04127	0.00900	-0.00011
12.75	0.11403	0.37673	-0.04173	0.00924	-0.00001
13.25	0.11741	0.37416	-0.04117	0.00933	0.00018
13.75	0.12370	0.36611	-0.04258	0.00966	-0.00022
14.25	0.12061	0.36846	-0.04502	0.00987	-0.00042
14.75	0.08916	0.38919	-0.04492	0.00965	-0.00034
15.25	0.08070	0.39761	-0.04466	0.00936	0.00011
15.75	0.11220	0.37701	-0.04597	0.00964	0.00004
16.25	0.11015	0.37432	-0.04677	0.01001	-0.00041
16.75	0.09407	0.38586	-0.04625	0.00976	-0.00052
17.25	0.09765	0.37966	-0.04604	0.00988	-0.00055

17.75 0.11105 0.36653 -0.04709 0.01024 -0.00047 18.25 0.10701 0.37303 -0.04704 0.00981 -0.00042 18.75 0.10161 0.37382 -0.04722 0.00997 -0.00080 19.25 0.09686 0.37352 -0.04729 0.01012 -0.00044 19.75 0.08608 0.37933 -0.04748 0.00987 -0.00009 20.25 0.07394 0.38517 -0.04860 0.00994 -0.00036 20.75 0.07476 0.38396 -0.04860 0.00994 -0.00049 21.25 0.07189 0.39018 -0.04861 0.00990 0.00013 21.75 0.06743 0.39332 -0.05018 0.01024 0.00010 22.25 0.06611 0.39118 -0.05025 0.01023 -0.00029 22.75 0.06928 0.38545 -0.04863 0.00973 -0.00012 23.25 0.06209 0.38545 -0.04863 0.00973 -0.00077 <						
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19.75 0.08608 0.37933 -0.04748 0.00987 -0.00009 20.25 0.07394 0.38517 -0.04914 0.00986 -0.00036 20.75 0.07476 0.38396 -0.04860 0.00994 -0.00049 21.25 0.07189 0.39018 -0.04881 0.00990 0.00013 21.75 0.06743 0.39332 -0.05018 0.01024 0.00010 22.25 0.06611 0.39118 -0.05025 0.01023 -0.00029 22.75 0.06928 0.38552 -0.04863 0.00973 -0.00051 23.25 0.06209 0.38545 -0.04915 0.01008 -0.00077 23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05201 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05223 0.01027 -0.00062 25.74 0.06063 0.37947 -0.05243 0.01037 -0.000062 <	18.75	0.10161	0.37382	-0.04722	0.00997	-0.00080
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21.25 0.07189 0.39018 -0.04881 0.0990 0.00013 21.75 0.06743 0.39332 -0.05018 0.01024 0.00010 22.25 0.06611 0.39118 -0.05025 0.01023 -0.00029 22.75 0.06928 0.38552 -0.04863 0.00973 -0.00051 23.25 0.06209 0.38545 -0.04915 0.01008 -0.00077 23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01107 -0.00081 <td< td=""><td>20.25</td><td>0.07394</td><td>0.38517</td><td>-0.04914</td><td>0.00986</td><td>-0.00036</td></td<>	20.25	0.07394	0.38517	-0.04914	0.00986	-0.00036
21.75 0.06743 0.39332 -0.05018 0.01024 0.00010 22.25 0.06611 0.39118 -0.05025 0.01023 -0.00029 22.75 0.06928 0.38552 -0.04863 0.00973 -0.00051 23.25 0.06209 0.38545 -0.04915 0.01008 -0.00077 23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05525 0.01107 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 <	20.75	0.07476	0.38396	-0.04860	0.00994	-0.00049
22.25 0.06611 0.39118 -0.05025 0.01023 -0.00029 22.75 0.06928 0.38552 -0.04863 0.00973 -0.00051 23.25 0.06209 0.38545 -0.04915 0.01008 -0.00077 23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05525 0.01107 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01147 -0.00065	21.25	0.07189	0.39018	-0.04881	0.00990	0.00013
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23.25 0.06209 0.38545 -0.04915 0.01008 -0.00077 23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06145 0.01175 -0.00125	22.25	0.06611	0.39118	-0.05025	0.01023	-0.00029
23.75 0.04478 0.40004 -0.05232 0.01003 0.00000 24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01175 -0.00125 29.25 0.03874 0.38370 -0.0604 0.01093 -0.0060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 <t< td=""><td>22.75</td><td>0.06928</td><td>0.38552</td><td>-0.04863</td><td>0.00973</td><td>-0.00051</td></t<>	22.75	0.06928	0.38552	-0.04863	0.00973	-0.00051
24.25 0.04090 0.39987 -0.05501 0.01019 -0.00033 24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00092	23.25	0.06209	0.38545	-0.04915	0.01008	-0.00077
24.75 0.04784 0.38824 -0.05322 0.01027 -0.00062 25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06039 0.01082 -0.00092 30.25 0.04434 0.37824 -0.06039 0.01100 -0.00096	23.75	0.04478	0.40004	-0.05232	0.01003	0.00000
25.24 0.06406 0.37947 -0.05243 0.01018 -0.00049 25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 31.75 0.03911 0.38168 -0.06089 0.01100 -0.00061	24.25	0.04090	0.39987	-0.05501	0.01019	-0.00033
25.74 0.07653 0.37503 -0.05470 0.01037 -0.00070 26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00096 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096	24.75	0.04784	0.38824	-0.05322	0.01027	-0.00062
26.24 0.08259 0.36917 -0.05525 0.01057 -0.00102 26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135	25.24	0.06406	0.37947	-0.05243	0.01018	-0.00049
26.74 0.06118 0.37878 -0.05591 0.01070 -0.00081 27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00135 32.75 0.01625 0.38310 -0.06231 0.01131 -0.00150	25.74	0.07653	0.37503	-0.05470	0.01037	-0.00070
27.25 0.04297 0.38573 -0.05715 0.01110 -0.00064 27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01131 -0.00150	26.24	0.08259	0.36917	-0.05525	0.01057	-0.00102
27.75 0.03230 0.39169 -0.05870 0.01108 -0.00032 28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01138 -0.00150 33.75 0.01187 0.37478 -0.06196 0.01131 -0.00185	26.74	0.06118	0.37878	-0.05591	0.01070	-0.00081
28.25 0.02554 0.39274 -0.06024 0.01147 -0.00065 28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01138 -0.00136 33.25 0.01898 0.37377 -0.06196 0.01131 -0.00150 34.25 0.02133 0.37322 -0.06371 0.01133 -0.00199	27.25	0.04297	0.38573	-0.05715	0.01110	-0.00064
28.75 0.02811 0.39040 -0.06145 0.01175 -0.00125 29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01138 -0.00136 33.25 0.01898 0.37377 -0.06186 0.01131 -0.00185 34.25 0.02133 0.37322 -0.06371 0.01133 -0.00199 34.75 0.01264 0.37689 -0.06299 0.01162 -0.00233	27.75	0.03230	0.39169	-0.05870	0.01108	-0.00032
29.25 0.03874 0.38370 -0.06004 0.01093 -0.00060 29.75 0.03913 0.38316 -0.06001 0.01046 -0.00025 30.25 0.04434 0.37824 -0.06039 0.01082 -0.00092 30.75 0.03911 0.38168 -0.06089 0.01100 -0.00090 31.25 0.00959 0.40117 -0.06240 0.01097 -0.00061 31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01138 -0.00136 33.25 0.01898 0.37377 -0.06196 0.01131 -0.00150 33.75 0.01187 0.37478 -0.06186 0.01131 -0.00185 34.25 0.02133 0.37322 -0.06371 0.01133 -0.00199 34.75 0.01264 0.37689 -0.06299 0.01162 -0.00233	28.25	0.02554	0.39274	-0.06024	0.01147	-0.00065
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31.75 0.01319 0.39155 -0.06321 0.01139 -0.00096 32.25 0.01625 0.38310 -0.06304 0.01162 -0.00135 32.75 0.02174 0.37677 -0.06231 0.01138 -0.00136 33.25 0.01898 0.37377 -0.06196 0.01131 -0.00150 33.75 0.01187 0.37478 -0.06186 0.01131 -0.00185 34.25 0.02133 0.37322 -0.06371 0.01133 -0.00199 34.75 0.01264 0.37689 -0.06299 0.01162 -0.00233 35.25 -0.00049 0.38079 -0.06219 0.01156 -0.00188	30.75	0.03911	0.38168	-0.06089	0.01100	-0.00090
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32.75 0.02174 0.37677 -0.06231 0.01138 -0.00136 33.25 0.01898 0.37377 -0.06196 0.01131 -0.00150 33.75 0.01187 0.37478 -0.06186 0.01131 -0.00185 34.25 0.02133 0.37322 -0.06371 0.01133 -0.00199 34.75 0.01264 0.37689 -0.06299 0.01162 -0.00233 35.25 -0.00049 0.38079 -0.06219 0.01156 -0.00188	31.75	0.01319	0.39155	-0.06321	0.01139	-0.00096
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34.75 0.01264 0.37689 -0.06299 0.01162 -0.00233 35.25 -0.00049 0.38079 -0.06219 0.01156 -0.00188	33.75	0.01187	0.37478	-0.06186	0.01131	-0.00185
35.25 -0.00049 0.38079 -0.06219 0.01156 -0.00188	34.25	0.02133	0.37322	-0.06371	0.01133	-0.00199
	34.75	0.01264	0.37689	-0.06299	0.01162	-0.00233
35.75 -0.00257 0.37601 -0.06363 0.01160 -0.00178	35.25	-0.00049	0.38079	-0.06219	0.01156	-0.00188
	35.75	-0.00257	0.37601	-0.06363	0.01160	-0.00178

36.25 -0.00042 0.37431 -0.06629 0.01164 -0.00203 36.75 0.01411 0.37231 -0.06467 0.01112 -0.00198 37.25 0.01194 0.36788 -0.06331 0.01116 -0.00197 37.75 0.00646 0.36165 -0.06479 0.01177 -0.00192 38.25 -0.00917 0.37511 -0.06316 0.01126 -0.00248 39.25 -0.00207 0.36174 -0.06410 0.01175 -0.00254 39.75 -0.01674 0.36571 -0.06348 0.01156 -0.00199 40.25 -0.01000 0.36222 -0.06165 0.01113 -0.00200 40.75 -0.02193 0.37373 -0.06348 0.01151 -0.00267 41.25 -0.02901 0.37850 -0.06489 0.01182 -0.00289 41.75 -0.04134 0.37526 -0.06515 0.01211 -0.00294 42.25 -0.03870 0.36519 -0.06252 0.01232 -0.00339 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th></tr<>						
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38.25 -0.00917 0.37511 -0.06563 0.01140 -0.00192 38.75 0.00749 0.36411 -0.06316 0.01126 -0.00248 39.25 -0.00207 0.36174 -0.06410 0.01175 -0.00254 39.75 -0.01674 0.36571 -0.06348 0.01156 -0.00199 40.25 -0.01000 0.36222 -0.06165 0.01113 -0.00200 40.75 -0.02193 0.37373 -0.06340 0.01151 -0.00267 41.25 -0.02901 0.37850 -0.06489 0.01182 -0.00289 41.75 -0.04134 0.37526 -0.06515 0.01211 -0.00295 42.25 -0.03870 0.36519 -0.06252 0.01232 -0.00305 42.75 -0.02288 0.36043 -0.06021 0.01159 -0.00305 43.25 -0.03573 0.37483 -0.06136 0.01101 -0.00244 43.75 -0.03573 0.36957 -0.06161 0.01134 -0.00272 <	37.25	0.01194	0.36788	-0.06331	0.01116	-0.00197
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39.75 -0.01674 0.36571 -0.06348 0.01156 -0.00199 40.25 -0.01000 0.36222 -0.06165 0.01113 -0.00200 40.75 -0.02193 0.37373 -0.06340 0.01151 -0.00267 41.25 -0.02901 0.37850 -0.06489 0.01182 -0.00289 41.75 -0.04134 0.37526 -0.06515 0.01211 -0.00295 42.25 -0.03870 0.36519 -0.06252 0.01232 -0.00339 42.75 -0.02288 0.36043 -0.06021 0.01159 -0.00305 43.25 -0.03573 0.37483 -0.06136 0.01101 -0.00244 43.75 -0.02774 0.36357 -0.06161 0.01134 -0.00272 44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324	38.75	0.00749	0.36411	-0.06316	0.01126	-0.00248
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42.25 -0.03870 0.36519 -0.06252 0.01232 -0.00339 42.75 -0.02288 0.36043 -0.06021 0.01159 -0.00305 43.25 -0.03573 0.37483 -0.06136 0.01101 -0.00244 43.75 -0.02774 0.36357 -0.06161 0.01134 -0.00272 44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07649 0.37307 -0.06430 0.01178 -0.00358 47.25 -0.07649 0.37307 -0.06655 0.01228 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363	41.25	-0.02901	0.37850	-0.06489	0.01182	-0.00289
42.75 -0.02288 0.36043 -0.06021 0.01159 -0.00305 43.25 -0.03573 0.37483 -0.06136 0.01101 -0.00244 43.75 -0.02774 0.36357 -0.06161 0.01134 -0.00272 44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366	41.75	-0.04134	0.37526	-0.06515	0.01211	-0.00295
43.25 -0.03573 0.37483 -0.06136 0.01101 -0.00244 43.75 -0.02774 0.36357 -0.06161 0.01134 -0.00272 44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06655 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366	42.25	-0.03870	0.36519	-0.06252	0.01232	-0.00339
43.75 -0.02774 0.36357 -0.06161 0.01134 -0.00272 44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06697 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409	42.75	-0.02288	0.36043	-0.06021	0.01159	-0.00305
44.25 -0.01291 0.34928 -0.06122 0.01159 -0.00304 44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07145 0.01207 -0.00380	43.25	-0.03573	0.37483	-0.06136	0.01101	-0.00244
44.75 -0.03059 0.36041 -0.06033 0.01141 -0.00299 45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378	43.75	-0.02774	0.36357	-0.06161	0.01134	-0.00272
45.25 -0.05940 0.37963 -0.06233 0.01144 -0.00260 45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.06193 0.35125 -0.07451 0.01176 -0.00351	44.25	-0.01291	0.34928	-0.06122	0.01159	-0.00304
45.75 -0.06670 0.37906 -0.06471 0.01198 -0.00324 46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348	44.75	-0.03059	0.36041	-0.06033	0.01141	-0.00299
46.25 -0.05686 0.37496 -0.06467 0.01162 -0.00369 46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406	45.25	-0.05940	0.37963	-0.06233	0.01144	-0.00260
46.75 -0.07689 0.38357 -0.06379 0.01117 -0.00358 47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.06317 0.34327 -0.07271 0.01241 -0.00471	45.75	-0.06670	0.37906	-0.06471	0.01198	-0.00324
47.25 -0.07649 0.37307 -0.06430 0.01178 -0.00365 47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00453	46.25	-0.05686	0.37496	-0.06467	0.01162	-0.00369
47.75 -0.05116 0.35406 -0.06665 0.01228 -0.00363 48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00453	46.75	-0.07689	0.38357	-0.06379	0.01117	-0.00358
48.25 -0.03362 0.34466 -0.06897 0.01231 -0.00369 48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.75 -0.06337 0.34283 -0.07616 0.01186 -0.00453	47.25	-0.07649	0.37307	-0.06430	0.01178	-0.00365
48.75 -0.04728 0.35946 -0.07097 0.01220 -0.00366 49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00453 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	47.75	-0.05116	0.35406	-0.06665	0.01228	-0.00363
49.25 -0.06007 0.36559 -0.07182 0.01237 -0.00409 49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	48.25	-0.03362	0.34466	-0.06897	0.01231	-0.00369
49.75 -0.06624 0.36503 -0.07106 0.01207 -0.00404 50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00453 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	48.75	-0.04728	0.35946	-0.07097	0.01220	-0.00366
50.25 -0.07548 0.36547 -0.07145 0.01219 -0.00380 50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00453 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	49.25	-0.06007	0.36559	-0.07182	0.01237	-0.00409
50.75 -0.07313 0.35696 -0.07094 0.01220 -0.00378 51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	49.75	-0.06624	0.36503	-0.07106	0.01207	-0.00404
51.25 -0.06818 0.35101 -0.07226 0.01203 -0.00351 51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	50.25	-0.07548	0.36547	-0.07145	0.01219	-0.00380
51.75 -0.06193 0.35125 -0.07451 0.01176 -0.00348 52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	50.75	-0.07313	0.35696	-0.07094	0.01220	-0.00378
52.25 -0.07092 0.35682 -0.07446 0.01205 -0.00406 52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	51.25	-0.06818	0.35101	-0.07226	0.01203	-0.00351
52.75 -0.06317 0.34327 -0.07271 0.01241 -0.00471 53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	51.75	-0.06193	0.35125	-0.07451	0.01176	-0.00348
53.25 -0.05467 0.33702 -0.07334 0.01186 -0.00451 53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	52.25	-0.07092	0.35682	-0.07446	0.01205	-0.00406
53.75 -0.06337 0.34283 -0.07616 0.01188 -0.00453	52.75	-0.06317	0.34327	-0.07271	0.01241	-0.00471
	53.25	-0.05467	0.33702	-0.07334	0.01186	-0.00451
54.25 -0.08225 0.34943 -0.07673 0.01216 -0.00446	53.75	-0.06337	0.34283	-0.07616	0.01188	-0.00453
	54.25	-0.08225	0.34943	-0.07673	0.01216	-0.00446

54.75 -0.10523 0.36258 -0.07699 0.01224 -0.00431 55.25 -0.10962 0.36126 -0.07637 0.01204 -0.00400 55.75 -0.10010 0.35406 -0.07663 0.01169 -0.00385 56.25 -0.08169 0.33753 -0.07515 0.01150 -0.00423 56.75 -0.10424 0.34932 -0.07503 0.01175 -0.00434 57.25 -0.12796 0.35907 -0.07585 0.01175 -0.00401 57.75 -0.10822 0.34067 -0.07580 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00447 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00447 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14303 0.34213 -0.077582 0.01179 -0.00441						
55.75 -0.10010 0.35406 -0.07663 0.01169 -0.00385 56.25 -0.08169 0.33753 -0.07515 0.01150 -0.00423 56.75 -0.10424 0.34932 -0.07503 0.01153 -0.00434 57.25 -0.12796 0.35907 -0.07606 0.01175 -0.00413 57.75 -0.10822 0.34067 -0.07606 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07587 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14624 0.35591 -0.07587 0.01155 -0.00442 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.16643 0.34425 -0.07467 0.01186 -0.00519	54.75	-0.10523	0.36258	-0.07699	0.01224	-0.00431
56.25 -0.08169 0.33753 -0.07515 0.01150 -0.00423 56.75 -0.10424 0.34932 -0.07503 0.01153 -0.00434 57.25 -0.12796 0.35907 -0.07585 0.01175 -0.00413 57.75 -0.10822 0.34067 -0.07606 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07689 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07582 0.01150 -0.00471 60.75 -0.14639 0.35163 -0.07582 0.01159 -0.00471 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01186 -0.00519	55.25	-0.10962	0.36126	-0.07637	0.01204	-0.00400
56.75 -0.10424 0.34932 -0.07503 0.01153 -0.00434 57.25 -0.12796 0.35907 -0.07585 0.01175 -0.00413 57.75 -0.10822 0.34067 -0.07606 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00502 61.75 -0.13652 0.32846 -0.07467 0.01186 -0.00519 62.25 -0.16643 0.34425 -0.07425 0.01149 -0.00426	55.75	-0.10010	0.35406	-0.07663	0.01169	-0.00385
57.25 -0.12796 0.35907 -0.07585 0.01175 -0.00413 57.75 -0.10822 0.34067 -0.07606 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14303 0.34213 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.32768 -0.07592 0.01179 -0.00502 61.25 -0.12886 0.32768 -0.07467 0.01188 -0.00522 61.75 -0.15108 0.33428 -0.07425 0.01186 -0.00528 62.25 -0.15108 0.33428 -0.07425 0.01186 -0.00476 63.25 -0.16643 0.34425 -0.07425 0.01186 -0.00465	56.25	-0.08169	0.33753	-0.07515	0.01150	-0.00423
57.75 -0.10822 0.34067 -0.07606 0.01179 -0.00407 58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00502 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421	56.75	-0.10424	0.34932	-0.07503	0.01153	-0.00434
58.25 -0.10293 0.33321 -0.07530 0.01168 -0.00444 58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00421 64.25 -0.1277 0.34728 -0.07153 0.01108 -0.00383 <	57.25	-0.12796	0.35907	-0.07585	0.01175	-0.00413
58.75 -0.12186 0.34292 -0.07587 0.01165 -0.00479 59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00451 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.0762 0.01056 -0.00421 <	57.75	-0.10822	0.34067	-0.07606	0.01179	-0.00407
59.25 -0.14241 0.35543 -0.07669 0.01165 -0.00462 59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.0762 0.01056 -0.00421 <	58.25	-0.10293	0.33321	-0.07530	0.01168	-0.00444
59.75 -0.14624 0.35591 -0.07582 0.01155 -0.00448 60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.75 -0.1856 0.32703 -0.06738 0.01097 -0.00451 <	58.75	-0.12186	0.34292	-0.07587	0.01165	-0.00479
60.25 -0.14639 0.35163 -0.07589 0.01160 -0.00471 60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01186 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18545 0.32030 -0.06545 0.01059 -0.00425	59.25	-0.14241	0.35543	-0.07669	0.01165	-0.00462
60.75 -0.14303 0.34213 -0.07719 0.01207 -0.00502 61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01093 -0.00375	59.75	-0.14624	0.35591	-0.07582	0.01155	-0.00448
61.25 -0.12886 0.32768 -0.07592 0.01179 -0.00500 61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01037 -0.00371	60.25	-0.14639	0.35163	-0.07589	0.01160	-0.00471
61.75 -0.13652 0.32846 -0.07467 0.01188 -0.00528 62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371	60.75	-0.14303	0.34213	-0.07719	0.01207	-0.00502
62.25 -0.15108 0.33428 -0.07412 0.01186 -0.00519 62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06738 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06897 0.01042 -0.00343	61.25	-0.12886	0.32768	-0.07592	0.01179	-0.00500
62.75 -0.16643 0.34425 -0.07425 0.01149 -0.00476 63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343	61.75	-0.13652	0.32846	-0.07467	0.01188	-0.00528
63.25 -0.16994 0.33834 -0.07357 0.01186 -0.00465 63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28100 0.34386 -0.06939 0.01031 -0.00279	62.25	-0.15108	0.33428	-0.07412	0.01186	-0.00519
63.75 -0.17253 0.33256 -0.07291 0.01198 -0.00421 64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28100 0.34386 -0.07137 0.01081 -0.00312	62.75	-0.16643	0.34425	-0.07425	0.01149	-0.00476
64.25 -0.19277 0.34728 -0.07153 0.01108 -0.00383 64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01031 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312	63.25	-0.16994	0.33834	-0.07357	0.01186	-0.00465
64.75 -0.20245 0.35150 -0.07062 0.01056 -0.00421 65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00356	63.75	-0.17253	0.33256	-0.07291	0.01198	-0.00421
65.25 -0.20124 0.34133 -0.06967 0.01111 -0.00454 65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33307 -0.07383 0.01086 -0.00375	64.25	-0.19277	0.34728	-0.07153	0.01108	-0.00383
65.75 -0.18856 0.32703 -0.06738 0.01097 -0.00451 66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360	64.75	-0.20245	0.35150	-0.07062	0.01056	-0.00421
66.25 -0.18545 0.32030 -0.06545 0.01059 -0.00425 66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.75 -0.29379 0.333338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346 <td>65.25</td> <td>-0.20124</td> <td>0.34133</td> <td>-0.06967</td> <td>0.01111</td> <td>-0.00454</td>	65.25	-0.20124	0.34133	-0.06967	0.01111	-0.00454
66.74 -0.21182 0.33019 -0.06729 0.01093 -0.00389 67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	65.75	-0.18856	0.32703	-0.06738	0.01097	-0.00451
67.25 -0.22935 0.33724 -0.06734 0.01087 -0.00371 67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33307 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	66.25	-0.18545	0.32030	-0.06545	0.01059	-0.00425
67.75 -0.23714 0.34066 -0.06690 0.01036 -0.00356 68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	66.74	-0.21182	0.33019	-0.06729	0.01093	-0.00389
68.25 -0.26411 0.35502 -0.06877 0.01042 -0.00343 68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	67.25	-0.22935	0.33724	-0.06734	0.01087	-0.00371
68.75 -0.28013 0.36088 -0.06833 0.01021 -0.00284 69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	67.75	-0.23714	0.34066	-0.06690	0.01036	-0.00356
69.25 -0.28245 0.35283 -0.06939 0.01033 -0.00279 69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	68.25	-0.26411	0.35502	-0.06877	0.01042	-0.00343
69.75 -0.28100 0.34386 -0.07137 0.01081 -0.00312 70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	68.75	-0.28013	0.36088	-0.06833	0.01021	-0.00284
70.25 -0.28747 0.34831 -0.07470 0.01081 -0.00296 70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	69.25	-0.28245	0.35283	-0.06939	0.01033	-0.00279
70.75 -0.28697 0.34182 -0.07440 0.01079 -0.00356 71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	69.75	-0.28100	0.34386	-0.07137	0.01081	-0.00312
71.25 -0.29239 0.33607 -0.07383 0.01086 -0.00375 71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	70.25	-0.28747	0.34831	-0.07470	0.01081	-0.00296
71.75 -0.29379 0.33338 -0.07456 0.01121 -0.00360 72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	70.75	-0.28697	0.34182	-0.07440	0.01079	-0.00356
72.25 -0.31702 0.34387 -0.07685 0.01133 -0.00346	71.25	-0.29239	0.33607	-0.07383	0.01086	-0.00375
	71.75	-0.29379	0.33338	-0.07456	0.01121	-0.00360
72.75 -0.31481 0.34028 -0.07837 0.01086 -0.00305	72.25	-0.31702	0.34387	-0.07685	0.01133	-0.00346
	72.75	-0.31481	0.34028	-0.07837	0.01086	-0.00305

				I
-0.30790	0.33193	-0.07913	0.01086	-0.00310
-0.31130	0.32788	-0.07941	0.01130	-0.00330
-0.34127	0.34643	-0.07942	0.01119	-0.00293
-0.36355	0.35564	-0.08101	0.01141	-0.00297
-0.34210	0.33535	-0.08037	0.01131	-0.00292
-0.32971	0.32169	-0.07914	0.01121	-0.00282
-0.34956	0.33451	-0.07913	0.01089	-0.00238
-0.36663	0.34223	-0.08299	0.01159	-0.00247
-0.36997	0.34020	-0.08430	0.01159	-0.00245
-0.35338	0.32991	-0.08265	0.01070	-0.00207
-0.35246	0.32658	-0.08220	0.01069	-0.00198
-0.34893	0.31475	-0.08109	0.01127	-0.00242
-0.34950	0.30625	-0.08136	0.01147	-0.00228
-0.37602	0.32362	-0.08386	0.01153	-0.00198
-0.38244	0.33140	-0.08566	0.01141	-0.00183
-0.41267	0.34284	-0.08536	0.01176	-0.00210
-0.39967	0.33536	-0.08277	0.01089	-0.00141
-0.38941	0.32618	-0.08289	0.01069	-0.00147
-0.40194	0.33003	-0.08494	0.01126	-0.00147
-0.39419	0.32228	-0.08349	0.01129	-0.00136
-0.40753	0.32658	-0.08112	0.01078	-0.00140
-0.40344	0.32409	-0.08033	0.01073	-0.00142
-0.40444	0.31333	-0.08132	0.01116	-0.00090
-0.41424	0.32358	-0.08070	0.01103	-0.00093
-0.40622	0.31248	-0.08090	0.01103	-0.00083
-0.39835	0.30374	-0.07975	0.01113	-0.00092
-0.39673	0.29981	-0.07855	0.01074	-0.00080
-0.41699	0.30915	-0.07895	0.01094	-0.00050
-0.42397	0.31063	-0.07688	0.01064	-0.00023
-0.43007	0.31319	-0.07547	0.01009	0.00032
-0.42857	0.30733	-0.07484	0.01069	-0.00011
-0.43772	0.31693	-0.07382	0.01002	0.00081
-0.45809	0.32165	-0.07257	0.01009	0.00101
-0.44130	0.30863	-0.07157	0.00995	0.00118
	-0.31130 -0.34127 -0.36355 -0.34210 -0.32971 -0.34956 -0.36663 -0.36997 -0.35338 -0.35246 -0.34893 -0.34950 -0.37602 -0.38244 -0.41267 -0.39967 -0.38941 -0.40194 -0.39419 -0.40753 -0.40344 -0.40444 -0.41424 -0.40622 -0.39835 -0.39673 -0.41699 -0.42397 -0.43007 -0.42857 -0.45809	-0.31130 0.32788 -0.34127 0.34643 -0.36355 0.35564 -0.34210 0.33535 -0.32971 0.32169 -0.34956 0.33451 -0.36663 0.34223 -0.36997 0.34020 -0.35338 0.32991 -0.35246 0.32658 -0.34893 0.31475 -0.34950 0.30625 -0.37602 0.32362 -0.38244 0.33140 -0.41267 0.34284 -0.39967 0.33536 -0.38941 0.32618 -0.40194 0.33003 -0.39419 0.32228 -0.40753 0.32658 -0.40344 0.31333 -0.41424 0.32358 -0.40622 0.31248 -0.39835 0.30374 -0.43007 0.31319 -0.42857 0.30733 -0.43702 0.31693 -0.45809 0.32165	-0.31130 0.32788 -0.07941 -0.34127 0.34643 -0.07942 -0.36355 0.35564 -0.08101 -0.34210 0.33535 -0.08037 -0.32971 0.32169 -0.07914 -0.34956 0.33451 -0.07913 -0.36663 0.34223 -0.08299 -0.36997 0.34020 -0.08430 -0.35338 0.32991 -0.08265 -0.35246 0.32658 -0.08220 -0.34893 0.31475 -0.08109 -0.34950 0.30625 -0.08136 -0.37602 0.32362 -0.08386 -0.38244 0.33140 -0.08566 -0.41267 0.34284 -0.08277 -0.38941 0.32618 -0.08289 -0.40194 0.33003 -0.08494 -0.39419 0.32228 -0.08349 -0.40753 0.32658 -0.08112 -0.40344 0.32365 -0.08132 -0.40444 0.31333 -0.08033 -0.4062	-0.31130 0.32788 -0.07941 0.01130 -0.34127 0.34643 -0.07942 0.01119 -0.36355 0.35564 -0.08101 0.01141 -0.34210 0.33535 -0.08037 0.01131 -0.32971 0.32169 -0.07914 0.01121 -0.34956 0.33451 -0.07913 0.01089 -0.36663 0.34223 -0.08299 0.01159 -0.36997 0.34020 -0.08430 0.01159 -0.35997 0.34020 -0.08265 0.01070 -0.35246 0.32658 -0.08220 0.01069 -0.34893 0.31475 -0.08109 0.01127 -0.34950 0.30625 -0.08136 0.01147 -0.37602 0.32362 -0.08386 0.01153 -0.38244 0.33140 -0.08566 0.01141 -0.41267 0.34284 -0.08536 0.01176 -0.39967 0.33536 -0.08277 0.01089 -0.40194 0.33003 -0.08494 0.01126

Table 31. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ,\ \dot{\varphi}=3$ °/sec

	DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}			
0.24	0.55395	0.19255	-0.00954	-0.00110	0.00322			
0.74	0.56242	0.18126	-0.00384	-0.00131	0.00337			
1.25	0.54973	0.18691	0.00035	-0.00166	0.00312			
1.74	0.56563	0.18007	0.00226	-0.00142	0.00239			
2.25	0.54711	0.18696	0.00369	-0.00195	0.00248			
2.75	0.54937	0.18575	0.00098	-0.00135	0.00218			
3.25	0.54791	0.18675	0.00389	-0.00206	0.00260			
3.75	0.53602	0.19788	0.00158	-0.00199	0.00249			
4.25	0.56729	0.17528	0.00261	-0.00179	0.00201			
4.74	0.55216	0.18496	0.00282	-0.00234	0.00198			
5.25	0.55957	0.17966	0.00186	-0.00169	0.00143			
5.75	0.57296	0.17193	0.00222	-0.00164	0.00178			
6.24	0.55707	0.17966	0.00002	-0.00148	0.00169			
6.75	0.53237	0.19490	-0.00203	-0.00116	0.00171			
7.25	0.54870	0.18269	-0.00107	-0.00124	0.00184			
7.74	0.55363	0.18375	-0.00165	-0.00154	0.00199			
8.25	0.55793	0.17840	-0.00153	-0.00133	0.00160			
8.75	0.55872	0.17798	-0.00257	-0.00114	0.00145			
9.25	0.55056	0.18422	-0.00370	-0.00139	0.00171			
9.75	0.55055	0.18148	-0.00324	-0.00149	0.00151			
10.25	0.54773	0.18193	-0.00208	-0.00136	0.00158			
10.75	0.53959	0.18945	-0.00310	-0.00096	0.00133			
11.25	0.53456	0.19223	-0.00378	-0.00145	0.00152			
11.75	0.53301	0.18538	-0.00323	-0.00125	0.00126			
12.25	0.50915	0.19759	-0.00430	-0.00107	0.00123			
12.75	0.53228	0.18199	-0.00350	-0.00130	0.00147			
13.25	0.54271	0.17471	-0.00325	-0.00130	0.00124			
13.75	0.53826	0.17325	-0.00427	-0.00093	0.00057			
14.25	0.52465	0.18680	-0.00417	-0.00154	0.00101			
14.75	0.50842	0.19511	-0.00379	-0.00165	0.00109			
15.25	0.51319	0.18853	-0.00395	-0.00142	0.00117			
15.75	0.52926	0.17782	-0.00483	-0.00131	0.00118			
16.25	0.53647	0.17554	-0.00495	-0.00144	0.00106			
16.75	0.52092	0.18474	-0.00477	-0.00153	0.00093			
17.25	0.51153	0.18836	-0.00583	-0.00112	0.00085			

17.75 0.50535 0.19302 -0.00626 -0.00102 0.00077 18.25 0.49977 0.19298 -0.00619 -0.00115 0.00101 18.75 0.50099 0.18562 -0.00631 -0.00105 0.00109 19.25 0.50600 0.18730 -0.00675 -0.00144 0.00021 19.75 0.51463 0.17961 -0.00680 -0.00126 0.00091 20.25 0.50771 0.17966 -0.00601 -0.00126 0.00090 20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.75 0.49544 0.18440 -0.00509 -0.00117 0.00056						
18.75 0.50099 0.18562 -0.00631 -0.00105 0.00109 19.25 0.50600 0.18730 -0.00675 -0.00144 0.00120 19.75 0.51463 0.17961 -0.00680 -0.00134 0.00081 20.25 0.50771 0.17966 -0.00601 -0.00126 0.00090 20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.25 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00148 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148	17.75	0.50535	0.19302	-0.00626	-0.00102	0.00077
19.25 0.50600 0.18730 -0.00675 -0.00144 0.00120 19.75 0.51463 0.17961 -0.00680 -0.00134 0.00081 20.25 0.50771 0.17966 -0.00601 -0.00126 0.00090 20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.0062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00115 0.0013 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 <	18.25	0.49977	0.19298	-0.00619	-0.00115	0.00101
19.75 0.51463 0.17961 -0.00680 -0.00134 0.00081 20.25 0.50771 0.17966 -0.00601 -0.00126 0.00090 20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.000047 0.00088	18.75	0.50099	0.18562	-0.00631	-0.00105	0.00109
20.25 0.50771 0.17966 -0.00601 -0.00126 0.00090 20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00199 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00088 25.74 0.49200 0.17789 -0.00984 -0.00065 0.00112	19.25	0.50600	0.18730	-0.00675	-0.00144	0.00120
20.75 0.50126 0.18071 -0.00586 -0.00131 0.00107 21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00560 -0.00117 0.00056 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00984 -0.00065 0.00110 26.24 0.49637 0.17820 -0.00851 -0.00065 0.00129	19.75	0.51463	0.17961	-0.00680	-0.00134	0.00081
21.25 0.49073 0.18681 -0.00695 -0.00095 0.00095 21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00984 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00058 0.00129	20.25	0.50771	0.17966	-0.00601	-0.00126	0.00090
21.75 0.49511 0.18477 -0.00531 -0.00115 0.00062 22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125	20.75	0.50126	0.18071	-0.00586	-0.00131	0.00107
22.25 0.51662 0.16928 -0.00494 -0.00110 0.00034 22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129	21.25	0.49073	0.18681	-0.00695	-0.00095	0.00095
22.75 0.50866 0.17096 -0.00509 -0.00119 0.00021 23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00033 -0.00102	21.75	0.49511	0.18477	-0.00531	-0.00115	0.00062
23.25 0.49732 0.17946 -0.00560 -0.00117 0.00056 23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.45349 0.19050 -0.00950 -0.00123 0.00094	22.25	0.51662	0.16928	-0.00494	-0.00110	0.00034
23.75 0.49544 0.18440 -0.00793 -0.00105 0.00103 24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094	22.75	0.50866	0.17096	-0.00509	-0.00119	0.00021
24.25 0.47975 0.19672 -0.00837 -0.00150 0.00148 24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058	23.25	0.49732	0.17946	-0.00560	-0.00117	0.00056
24.75 0.48065 0.19005 -0.00867 -0.00109 0.00133 25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047	23.75	0.49544	0.18440	-0.00793	-0.00105	0.00103
25.24 0.47773 0.18571 -0.00988 -0.00047 0.00080 25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18755 -0.01002 -0.00055 0.00059	24.25	0.47975	0.19672	-0.00837	-0.00150	0.00148
25.74 0.49200 0.17789 -0.00966 -0.00068 0.00110 26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053	24.75	0.48065	0.19005	-0.00867	-0.00109	0.00133
26.24 0.49637 0.17420 -0.00884 -0.00075 0.00125 26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059	25.24	0.47773	0.18571	-0.00988	-0.00047	0.00080
26.74 0.48085 0.17882 -0.00851 -0.00065 0.00109 27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00044 0.00059 32.75 0.43241 0.18644 -0.01003 -0.00046 0.00059	25.74	0.49200	0.17789	-0.00966	-0.00068	0.00110
27.24 0.46528 0.18631 -0.00982 -0.00058 0.00125 27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18755 -0.01002 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00034 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012	26.24	0.49637	0.17420	-0.00884	-0.00075	0.00125
27.75 0.45982 0.18847 -0.01142 -0.00054 0.00129 28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00034 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00049 0.00086	26.74	0.48085	0.17882	-0.00851	-0.00065	0.00109
28.25 0.44196 0.20070 -0.01076 -0.00093 0.00102 28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00059 32.75 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.000023 0.00053	27.24	0.46528	0.18631	-0.00982	-0.00058	0.00125
28.75 0.43966 0.19828 -0.00933 -0.00101 0.00070 29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00059 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00053 34.75 0.41519 0.18360 -0.01011 -0.000076 -0.00013	27.75	0.45982	0.18847	-0.01142	-0.00054	0.00129
29.25 0.45349 0.19050 -0.00950 -0.00123 0.00094 29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41086 0.17866 -0.01067 0.00076 -0.00053	28.25	0.44196	0.20070	-0.01076	-0.00093	0.00102
29.75 0.45820 0.18240 -0.00923 -0.00115 0.00058 30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01067 0.00076 -0.00053 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	28.75	0.43966	0.19828	-0.00933	-0.00101	0.00070
30.25 0.44931 0.18192 -0.01034 -0.00042 0.00002 30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	29.25	0.45349	0.19050	-0.00950	-0.00123	0.00094
30.75 0.42638 0.18937 -0.00981 -0.00034 0.00047 31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	29.75	0.45820	0.18240	-0.00923	-0.00115	0.00058
31.25 0.42436 0.18755 -0.01002 -0.00055 0.00059 31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	30.25	0.44931	0.18192	-0.01034	-0.00042	0.00002
31.75 0.43869 0.17934 -0.01012 -0.00034 0.00053 32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	30.75	0.42638	0.18937	-0.00981	-0.00034	0.00047
32.25 0.43166 0.18764 -0.01003 -0.00049 0.00059 32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	31.25	0.42436	0.18755	-0.01002	-0.00055	0.00059
32.75 0.43241 0.18644 -0.01100 -0.00067 0.00012 33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	31.75	0.43869	0.17934	-0.01012	-0.00034	0.00053
33.25 0.44379 0.17677 -0.01158 -0.00046 0.00031 33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	32.25	0.43166	0.18764	-0.01003	-0.00049	0.00059
33.75 0.42029 0.18607 -0.01075 -0.00049 0.00086 34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	32.75	0.43241	0.18644	-0.01100	-0.00067	0.00012
34.25 0.41190 0.18851 -0.01114 -0.00023 0.00053 34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	33.25	0.44379	0.17677	-0.01158	-0.00046	0.00031
34.75 0.41519 0.18360 -0.01011 -0.00001 -0.00013 35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	33.75	0.42029	0.18607	-0.01075	-0.00049	0.00086
35.25 0.41086 0.17866 -0.01067 0.00076 -0.00053	34.25	0.41190	0.18851	-0.01114	-0.00023	0.00053
	34.75	0.41519	0.18360	-0.01011	-0.00001	-0.00013
35.75 0.42086 0.16949 -0.01040 0.00071 -0.00035	35.25	0.41086	0.17866	-0.01067	0.00076	-0.00053
	35.75	0.42086	0.16949	-0.01040	0.00071	-0.00035

36.25 0.41185 0.18005 -0.00991 -0.00005 0.00012 36.75 0.40877 0.18910 -0.01093 -0.00048 0.00039 37.25 0.40122 0.19024 -0.01147 0.00006 0.00033 37.75 0.39706 0.18010 -0.00736 -0.00014 0.00053 38.25 0.37937 0.18309 -0.00641 0.00017 0.00013 38.75 0.38405 0.18073 -0.00924 0.00063 -0.00013 39.75 0.40677 0.16682 -0.00757 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.373221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00009 -0.00060						
37.25 0.40122 0.19024 -0.01147 0.00006 0.00030 37.75 0.39706 0.18010 -0.00736 -0.00014 0.00053 38.25 0.37937 0.18309 -0.00641 0.00017 0.00014 38.75 0.38405 0.18073 -0.00924 0.00063 -0.00013 39.25 0.40014 0.17339 -0.00912 0.00008 -0.00055 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00062 41.25 0.37497 0.18040 -0.00442 -0.00033 -0.0067 41.25 0.37497 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00044 42.25 0.36414 0.17458 -0.00170 0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00006 -0.00126	36.25	0.41185	0.18005	-0.00991	-0.00005	0.00012
37.75 0.39706 0.18010 -0.00736 -0.00014 0.00053 38.25 0.37937 0.18309 -0.00641 0.00017 0.00014 38.75 0.38405 0.18073 -0.00924 0.00063 -0.00013 39.25 0.40014 0.17339 -0.00912 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00062 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00128	36.75	0.40877	0.18910	-0.01093	-0.00048	0.00039
38.25 0.37937 0.18309 -0.00641 0.00017 0.00014 38.75 0.38405 0.18073 -0.00924 0.00063 -0.00013 39.25 0.40014 0.17339 -0.00912 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.0003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00044 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.33653 0.18588 -0.00169 0.00060 -0.00120 44.25 0.33653 0.18588 -0.00140 0.00060 -0.00128	37.25	0.40122	0.19024	-0.01147	0.00006	0.00030
38.75 0.38405 0.18073 -0.00924 0.00063 -0.00013 39.25 0.40014 0.17339 -0.00912 0.00008 -0.00005 39.75 0.40677 0.16682 -0.00757 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00060 43.75 0.36965 0.16623 -0.00140 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00149 0.00060 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00128	37.75	0.39706	0.18010	-0.00736	-0.00014	0.00053
39.25 0.40014 0.17339 -0.00912 0.00008 -0.00005 39.75 0.40677 0.16682 -0.00757 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126	38.25	0.37937	0.18309	-0.00641	0.00017	0.00014
39.75 0.40677 0.16682 -0.00757 0.00008 -0.00058 40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00126 45.75 0.34863 0.17671 -0.00140 0.00021 -0.00149	38.75	0.38405	0.18073	-0.00924	0.00063	-0.00013
40.25 0.39803 0.17225 -0.00500 -0.00015 -0.00062 40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34863 0.17671 -0.00140 0.00043 -0.0019	39.25	0.40014	0.17339	-0.00912	0.00008	-0.00005
40.75 0.37497 0.18040 -0.00422 -0.00003 -0.00067 41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00022 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.0088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00191	39.75	0.40677	0.16682	-0.00757	0.00008	-0.00058
41.25 0.37345 0.17050 -0.00443 0.00041 -0.00082 41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17971 0.00021 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191	40.25	0.39803	0.17225	-0.00500	-0.00015	-0.00062
41.75 0.37221 0.17183 -0.00511 0.00039 -0.00047 42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142	40.75	0.37497	0.18040	-0.00422	-0.00003	-0.00067
42.25 0.36196 0.18187 -0.00398 0.00000 -0.00054 42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214	41.25	0.37345	0.17050	-0.00443	0.00041	-0.00082
42.75 0.36509 0.17941 -0.00209 -0.00009 -0.00060 43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272	41.75	0.37221	0.17183	-0.00511	0.00039	-0.00047
43.25 0.36414 0.17458 -0.00170 0.00002 -0.00097 43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210	42.25	0.36196	0.18187	-0.00398	0.00000	-0.00054
43.75 0.36965 0.16623 -0.00114 0.00026 -0.00120 44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00043 -0.00213	42.75	0.36509	0.17941	-0.00209	-0.00009	-0.00060
44.25 0.33653 0.18588 -0.00169 0.00060 -0.00138 44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00045 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243	43.25	0.36414	0.17458	-0.00170	0.00002	-0.00097
44.75 0.32386 0.19481 -0.00093 0.00008 -0.00128 45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272	43.75	0.36965	0.16623	-0.00114	0.00026	-0.00120
45.25 0.33905 0.18327 -0.00088 -0.00004 -0.00126 45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16764 -0.00771 0.00103 -0.00271	44.25	0.33653	0.18588	-0.00169	0.00060	-0.00138
45.75 0.34872 0.17671 -0.00140 0.00021 -0.00149 46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 <	44.75	0.32386	0.19481	-0.00093	0.00008	-0.00128
46.25 0.34863 0.17136 0.00017 0.00043 -0.00209 46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17100 -0.00733 0.00094 -0.00324 <	45.25	0.33905	0.18327	-0.00088	-0.00004	-0.00126
46.75 0.32296 0.17971 0.00021 0.00043 -0.00191 47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00733 0.00094 -0.00324 52.25 0.28322 0.17086 -0.00726 0.00076 -0.00391	45.75	0.34872	0.17671	-0.00140	0.00021	-0.00149
47.25 0.32614 0.18019 -0.00193 0.00011 -0.00142 47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.0074 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00574 -0.00001 -0.00380	46.25	0.34863	0.17136	0.00017	0.00043	-0.00209
47.75 0.34519 0.16589 -0.00410 0.00067 -0.00214 48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00320	46.75	0.32296	0.17971	0.00021	0.00043	-0.00191
48.25 0.33866 0.16316 -0.00455 0.00090 -0.00272 48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	47.25	0.32614	0.18019	-0.00193	0.00011	-0.00142
48.75 0.31256 0.17857 -0.00556 0.00046 -0.00210 49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00320 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	47.75	0.34519	0.16589	-0.00410	0.00067	-0.00214
49.25 0.30115 0.18279 -0.00636 0.00065 -0.00195 49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	48.25	0.33866	0.16316	-0.00455	0.00090	-0.00272
49.75 0.30666 0.17894 -0.00562 0.00043 -0.00243 50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	48.75	0.31256	0.17857	-0.00556	0.00046	-0.00210
50.25 0.30424 0.17716 -0.00462 0.00028 -0.00272 50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	49.25	0.30115	0.18279	-0.00636	0.00065	-0.00195
50.75 0.30286 0.16710 -0.00433 0.00060 -0.00250 51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	49.75	0.30666	0.17894	-0.00562	0.00043	-0.00243
51.25 0.29437 0.16764 -0.00771 0.00103 -0.00271 51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	50.25	0.30424	0.17716	-0.00462	0.00028	-0.00272
51.75 0.28929 0.17199 -0.00774 0.00094 -0.00324 52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	50.75	0.30286	0.16710	-0.00433	0.00060	-0.00250
52.25 0.28809 0.17100 -0.00733 0.00093 -0.00325 52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	51.25	0.29437	0.16764	-0.00771	0.00103	-0.00271
52.75 0.28322 0.17086 -0.00726 0.00076 -0.00391 53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	51.75	0.28929	0.17199	-0.00774	0.00094	-0.00324
53.25 0.27741 0.17451 -0.00574 -0.00001 -0.00380 53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	52.25	0.28809	0.17100	-0.00733	0.00093	-0.00325
53.75 0.26050 0.17617 -0.00527 0.00016 -0.00320	52.75	0.28322	0.17086	-0.00726	0.00076	-0.00391
	53.25	0.27741	0.17451	-0.00574	-0.00001	-0.00380
54.25 0.23082 0.19257 -0.00744 0.00010 -0.00301	53.75	0.26050	0.17617	-0.00527	0.00016	-0.00320
	54.25	0.23082	0.19257	-0.00744	0.00010	-0.00301

54.75 0.23251 0.19122 -0.00849 0.00000 -0.00325 55.25 0.24884 0.17339 -0.00721 0.00035 -0.00415 55.75 0.22963 0.18319 -0.00729 0.00055 -0.00404 56.25 0.22998 0.17839 -0.00503 0.00026 -0.00397 56.75 0.22355 0.17467 -0.00563 0.00055 -0.00426 57.75 0.20932 0.17665 -0.00444 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00381 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.1682 0.17424 -0.00260 0.00002 -0.00505						
55.75 0.22963 0.18319 -0.00729 0.00055 -0.00404 56.25 0.22998 0.17839 -0.00503 0.00026 -0.00381 56.75 0.22355 0.17467 -0.00563 0.00050 -0.00397 57.25 0.21013 0.17702 -0.00444 0.00039 -0.00426 57.75 0.20932 0.17665 -0.00484 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00453 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480	54.75	0.23251	0.19122	-0.00849	0.00000	-0.00325
56.25 0.22998 0.17839 -0.00503 0.00026 -0.00381 56.75 0.22355 0.17467 -0.00563 0.00050 -0.00397 57.25 0.21013 0.17702 -0.00544 0.00055 -0.00426 57.75 0.20932 0.17665 -0.00484 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00453 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00472 60.75 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438	55.25	0.24884	0.17339	-0.00721	0.00034	-0.00415
56.75 0.22355 0.17467 -0.00563 0.00050 -0.00397 57.25 0.21013 0.17702 -0.00544 0.00055 -0.00426 57.75 0.20932 0.17665 -0.00484 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00453 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.17861 0.00006 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00018 -0.00453	55.75	0.22963	0.18319	-0.00729	0.00055	-0.00404
57.25 0.21013 0.17702 -0.00544 0.00055 -0.00426 57.75 0.20932 0.17665 -0.00484 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00381 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.0006 -0.00005 -0.00453 62.25 0.13507 0.17681 0.00252 0.00000 -0.00453	56.25	0.22998	0.17839	-0.00503	0.00026	-0.00381
57.75 0.20932 0.17665 -0.00484 0.00039 -0.00406 58.25 0.21663 0.17154 -0.00509 0.00009 -0.00381 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00037 -0.00472 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494	56.75	0.22355	0.17467	-0.00563	0.00050	-0.00397
58.25 0.21663 0.17154 -0.00509 0.00009 -0.00381 58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.0018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 <	57.25	0.21013	0.17702	-0.00544	0.00055	-0.00426
58.75 0.19247 0.18023 -0.00373 0.00012 -0.00453 59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.1231 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00453 63.25 0.13658 0.17697 0.00008 -0.0018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.01151 0.17800 0.0483 -0.0005 -0.00508	57.75	0.20932	0.17665	-0.00484	0.00039	-0.00406
59.25 0.16978 0.18425 -0.00235 0.00052 -0.00474 59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.1231 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00453 63.25 0.13658 0.17697 0.00008 -0.0018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.0005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.0014 -0.00522	58.25	0.21663	0.17154	-0.00509	0.00009	-0.00381
59.75 0.16216 0.18530 -0.00337 0.00075 -0.00450 60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00453 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00493 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493	58.75	0.19247	0.18023	-0.00373	0.00012	-0.00453
60.25 0.17370 0.18239 -0.00427 0.00037 -0.00472 60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487	59.25	0.16978	0.18425	-0.00235	0.00052	-0.00474
60.75 0.17682 0.17424 -0.00260 0.00022 -0.00505 61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519	59.75	0.16216	0.18530	-0.00337	0.00075	-0.00450
61.25 0.14687 0.18484 -0.00054 0.00001 -0.00480 61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.0111 -0.00053 -0.00567 <	60.25	0.17370	0.18239	-0.00427	0.00037	-0.00472
61.75 0.13075 0.19452 -0.00072 -0.00034 -0.00438 62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01137 -0.00061 -0.00517 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517	60.75	0.17682	0.17424	-0.00260	0.00022	-0.00505
62.25 0.12731 0.19023 0.00006 -0.00005 -0.00453 62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00113 -0.00458 <	61.25	0.14687	0.18484	-0.00054	0.00001	-0.00480
62.75 0.13507 0.17861 0.00025 0.00000 -0.00469 63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 <	61.75	0.13075	0.19452	-0.00072	-0.00034	-0.00438
63.25 0.13658 0.17697 0.00008 -0.00018 -0.00453 63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00962 -0.00113 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450	62.25	0.12731	0.19023	0.00006	-0.00005	-0.00453
63.75 0.12809 0.17768 0.00241 0.00006 -0.00494 64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00569	62.75	0.13507	0.17861	0.00025	0.00000	-0.00469
64.25 0.11511 0.17800 0.00483 -0.00005 -0.00508 64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531	63.25	0.13658	0.17697	0.00008	-0.00018	-0.00453
64.75 0.09950 0.18015 0.00565 -0.00014 -0.00522 65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569	63.75	0.12809	0.17768	0.00241	0.00006	-0.00494
65.25 0.09129 0.18393 0.00500 -0.00043 -0.00493 65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17731 0.00722 -0.00075 -0.00559	64.25	0.11511	0.17800	0.00483	-0.00005	-0.00508
65.75 0.08504 0.18820 0.00544 -0.00049 -0.00487 66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527	64.75	0.09950	0.18015	0.00565	-0.00014	-0.00522
66.25 0.08422 0.18295 0.00781 -0.00059 -0.00519 66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	65.25	0.09129	0.18393	0.00500	-0.00043	-0.00493
66.74 0.08395 0.17469 0.01011 -0.00053 -0.00567 67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	65.75	0.08504	0.18820	0.00544	-0.00049	-0.00487
67.24 0.04553 0.19506 0.01137 -0.00061 -0.00517 67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	66.25	0.08422	0.18295	0.00781	-0.00059	-0.00519
67.74 0.05086 0.18940 0.01054 -0.00089 -0.00465 68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	66.74	0.08395	0.17469	0.01011	-0.00053	-0.00567
68.25 0.07326 0.17132 0.00936 -0.00113 -0.00458 68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	67.24	0.04553	0.19506	0.01137	-0.00061	-0.00517
68.75 0.05752 0.17520 0.00962 -0.00122 -0.00476 69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	67.74	0.05086	0.18940	0.01054	-0.00089	-0.00465
69.25 0.02208 0.19437 0.00778 -0.00114 -0.00450 69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	68.25	0.07326	0.17132	0.00936	-0.00113	-0.00458
69.75 0.01856 0.19155 0.00645 -0.00101 -0.00485 70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	68.75	0.05752	0.17520	0.00962	-0.00122	-0.00476
70.25 0.02059 0.18428 0.00703 -0.00099 -0.00531 70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	69.25	0.02208	0.19437	0.00778	-0.00114	-0.00450
70.75 0.01908 0.17983 0.00776 -0.00091 -0.00569 71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	69.75	0.01856	0.19155	0.00645	-0.00101	-0.00485
71.25 0.01770 0.17731 0.00722 -0.00075 -0.00559 71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	70.25	0.02059	0.18428	0.00703	-0.00099	-0.00531
71.75 0.01342 0.17482 0.00766 -0.00083 -0.00527 72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	70.75	0.01908	0.17983	0.00776	-0.00091	-0.00569
72.25 -0.01105 0.18445 0.00595 -0.00092 -0.00456	71.25	0.01770	0.17731	0.00722	-0.00075	-0.00559
	71.75	0.01342	0.17482	0.00766	-0.00083	-0.00527
72.75 -0.01660 0.18066 0.00432 -0.00070 -0.00419	72.25	-0.01105	0.18445	0.00595	-0.00092	-0.00456
	72.75	-0.01660	0.18066	0.00432	-0.00070	-0.00419

	1			I	
73.25	-0.01520	0.17832	0.00277	-0.00080	-0.00418
73.75	-0.03093	0.18245	0.00331	-0.00076	-0.00436
74.25	-0.03750	0.18047	0.00313	-0.00075	-0.00388
74.75	-0.05116	0.18317	0.00249	-0.00088	-0.00342
75.25	-0.06789	0.18726	0.00242	-0.00106	-0.00313
75.75	-0.06038	0.17592	0.00299	-0.00135	-0.00282
76.25	-0.06157	0.17220	0.00234	-0.00124	-0.00271
76.75	-0.09230	0.18424	0.00167	-0.00085	-0.00314
77.25	-0.11371	0.19218	0.00080	-0.00058	-0.00324
77.75	-0.13060	0.19987	0.00011	-0.00086	-0.00320
78.25	-0.13386	0.19899	0.00127	-0.00141	-0.00302
78.75	-0.13290	0.19278	0.00268	-0.00146	-0.00258
79.25	-0.15258	0.19719	0.00408	-0.00117	-0.00283
79.75	-0.15343	0.19167	0.00482	-0.00121	-0.00244
80.25	-0.16699	0.19519	0.00211	-0.00104	-0.00211
80.75	-0.18835	0.21340	-0.00046	-0.00116	-0.00144
81.25	-0.17042	0.19308	0.00430	-0.00172	-0.00129
81.75	-0.20150	0.20367	0.00305	-0.00144	-0.00109
82.25	-0.22552	0.22162	0.00334	-0.00163	-0.00053
82.75	-0.20463	0.19840	0.00349	-0.00149	-0.00098
83.25	-0.19316	0.18720	0.00290	-0.00117	-0.00101
83.75	-0.20698	0.19878	0.00677	-0.00228	-0.00048
84.25	-0.20170	0.19084	0.00730	-0.00217	-0.00020
84.75	-0.21747	0.19545	0.00609	-0.00180	-0.00009
85.25	-0.21192	0.19064	0.00931	-0.00183	-0.00008
85.75	-0.24293	0.20107	0.00838	-0.00180	0.00033
86.25	-0.23104	0.19389	0.00734	-0.00189	0.00033
86.76	-0.24485	0.19520	0.01292	-0.00220	0.00040
87.25	-0.23636	0.19078	0.00946	-0.00205	0.00071
87.76	-0.24956	0.19086	0.01384	-0.00228	0.00124
88.25	-0.25550	0.18951	0.01286	-0.00185	0.00104
88.75	-0.25028	0.18517	0.01590	-0.00229	0.00129
89.26	-0.25361	0.18466	0.01639	-0.00229	0.00183
89.74	-0.26328	0.18981	0.01637	-0.00243	0.00234

Table 32. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ,\ \dot{\varphi}=3$ °/sec

DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$						
φ (°)	C_N	C _M	C_{S}	C_{YM}	C_{RM}	
0.22	-0.29938	0.18095	-0.00122	-0.00090	0.00249	
0.73	-0.30627	0.18149	0.00444	-0.00129	0.00261	
1.24	-0.29775	0.17880	0.00799	-0.00062	0.00057	
1.74	-0.29993	0.18425	0.01031	-0.00098	-0.00002	
2.25	-0.29909	0.17802	0.01052	-0.00115	-0.00035	
2.74	-0.30548	0.18277	0.00832	-0.00082	-0.00088	
3.25	-0.30284	0.18558	0.00609	-0.00068	-0.00076	
3.74	-0.29476	0.17925	0.00721	-0.00052	-0.00107	
4.25	-0.29181	0.17584	0.00738	-0.00033	-0.00136	
4.75	-0.29597	0.18140	0.00677	-0.00040	-0.00190	
5.25	-0.29084	0.18090	0.00651	-0.00071	-0.00201	
5.74	-0.27501	0.17065	0.00647	-0.00087	-0.00205	
6.25	-0.27345	0.16782	0.00631	-0.00095	-0.00216	
6.75	-0.28175	0.17032	0.00557	-0.00074	-0.00226	
7.25	-0.29011	0.17284	0.00498	-0.00047	-0.00253	
7.75	-0.30358	0.18255	0.00424	-0.00047	-0.00291	
8.25	-0.30389	0.18846	0.00327	-0.00064	-0.00298	
8.75	-0.29654	0.18765	0.00217	-0.00060	-0.00279	
9.25	-0.28681	0.18251	0.00211	-0.00037	-0.00287	
9.75	-0.28128	0.17687	0.00322	-0.00031	-0.00317	
10.25	-0.28144	0.17512	0.00422	-0.00056	-0.00339	
10.75	-0.28588	0.17794	0.00421	-0.00078	-0.00349	
11.25	-0.28703	0.17904	0.00342	-0.00082	-0.00370	
11.75	-0.28795	0.18018	0.00195	-0.00089	-0.00372	
12.25	-0.28189	0.17523	0.00139	-0.00079	-0.00383	
12.75	-0.28982	0.17791	0.00108	-0.00063	-0.00392	
13.25	-0.29115	0.17670	0.00081	-0.00038	-0.00419	
13.75	-0.29172	0.17557	0.00009	0.00003	-0.00450	
14.25	-0.28412	0.17183	-0.00112	0.00041	-0.00467	
14.75	-0.27334	0.16624	-0.00137	0.00059	-0.00460	
15.25	-0.27376	0.16715	-0.00142	0.00060	-0.00450	
15.75	-0.27467	0.16726	-0.00054	0.00031	-0.00440	
16.25	-0.27723	0.16890	-0.00018	0.00004	-0.00453	
16.75	-0.28014	0.17284	-0.00033	-0.00014	-0.00462	
17.25	-0.28360	0.17597	-0.00012	-0.00022	-0.00459	
17.75	-0.28917	0.17974	-0.00012	-0.00025	-0.00436	
18.25	-0.29369	0.18226	-0.00048	-0.00023	-0.00415	
18.75	-0.30132	0.18552	-0.00024	-0.00032	-0.00408	
19.25	-0.30554	0.18554	-0.00084	-0.00023	-0.00406	
19.75	-0.30857	0.18550	-0.00134	-0.00006	-0.00411	

20.25	-0.31769	0.19120	-0.00162	-0.00009	-0.00397
20.75	-0.32010	0.19516	-0.00244	0.00000	-0.00379
21.25	-0.31758	0.19723	-0.00347	0.00005	-0.00357
21.75	-0.31249	0.19464	-0.00296	-0.00009	-0.00366
22.25	-0.30686	0.19067	-0.00278	-0.00016	-0.00390
22.75	-0.30294	0.18892	-0.00260	-0.00039	-0.00405
23.25	-0.30388	0.18864	-0.00331	-0.00019	-0.00414
23.75	-0.30580	0.18827	-0.00381	0.00004	-0.00426
24.25	-0.30271	0.18542	-0.00422	0.00034	-0.00437
24.75	-0.29713	0.18194	-0.00541	0.00054	-0.00446
25.25	-0.28942	0.17829	-0.00720	0.00071	-0.00455
25.75	-0.28313	0.17631	-0.00795	0.00057	-0.00453
26.25	-0.28322	0.17604	-0.00802	0.00036	-0.00450
26.75	-0.28013	0.17325	-0.00842	0.00036	-0.00438
27.25	-0.27998	0.17185	-0.00820	0.00034	-0.00417
27.75	-0.27908	0.17071	-0.00825	0.00038	-0.00415
28.25	-0.28188	0.17352	-0.00876	0.00061	-0.00438
28.75	-0.28795	0.17974	-0.00916	0.00068	-0.00458
29.25	-0.28945	0.18486	-0.00986	0.00053	-0.00445
29.75	-0.28428	0.18558	-0.01049	0.00028	-0.00425
30.25	-0.27548	0.18175	-0.01085	0.00010	-0.00417
30.75	-0.27019	0.17739	-0.01067	0.00024	-0.00427
31.25	-0.27244	0.17733	-0.01054	0.00041	-0.00434
31.75	-0.27748	0.17831	-0.01080	0.00070	-0.00452
32.25	-0.27993	0.17668	-0.01113	0.00104	-0.00465
32.75	-0.28292	0.17854	-0.01108	0.00095	-0.00449
33.25	-0.28640	0.18184	-0.01142	0.00093	-0.00431
33.75	-0.28199	0.18103	-0.01171	0.00074	-0.00421
34.25	-0.27751	0.17935	-0.01224	0.00073	-0.00440
34.75	-0.27862	0.18024	-0.01266	0.00081	-0.00453
35.25	-0.28660	0.18788	-0.01284	0.00059	-0.00431
35.75	-0.28953	0.19175	-0.01250	0.00042	-0.00415
36.25	-0.28847	0.19237	-0.01208	0.00032	-0.00403
36.75	-0.28761	0.19284	-0.01192	0.00032	-0.00410
37.25	-0.28532	0.18830	-0.01103	0.00043	-0.00431
37.75	-0.28107	0.18262	-0.01013	0.00056	-0.00447
38.25	-0.27836	0.17916	-0.00915	0.00060	-0.00455
38.75	-0.28049	0.18080	-0.00806	0.00046	-0.00435
39.25	-0.27345	0.17668	-0.00729	0.00036	-0.00423
39.74	-0.27110	0.17605	-0.00660	0.00011	-0.00425
40.25	-0.27148	0.17474	-0.00617	0.00004	-0.00438
40.75	-0.27464	0.17665	-0.00707	0.00020	-0.00446

41.25	-0.27871	0.17925	0.00707	0.000.40	0.00177
	-0.27071	0.17835	-0.00796	0.00049	-0.00452
41.75	-0.28306	0.18232	-0.00821	0.00049	-0.00454
42.25	-0.28353	0.18279	-0.00767	0.00045	-0.00453
42.75	-0.28371	0.18332	-0.00582	0.00026	-0.00451
43.25	-0.29102	0.18942	-0.00426	0.00001	-0.00422
43.75	-0.29106	0.19156	-0.00298	-0.00018	-0.00405
44.25	-0.28462	0.18699	-0.00151	-0.00033	-0.00399
44.75	-0.27905	0.18394	-0.00135	-0.00039	-0.00399
45.24	-0.27581	0.18078	-0.00216	-0.00027	-0.00398
45.75	-0.27411	0.17785	-0.00357	0.00006	-0.00407
46.25	-0.27617	0.17807	-0.00459	0.00026	-0.00439
46.75	-0.27438	0.17897	-0.00516	0.00010	-0.00453
47.25	-0.27093	0.17844	-0.00529	-0.00010	-0.00458
47.75	-0.27008	0.18137	-0.00641	-0.00020	-0.00444
48.25	-0.27097	0.18267	-0.00701	-0.00026	-0.00430
48.75	-0.27304	0.18365	-0.00807	-0.00011	-0.00425
49.25	-0.26995	0.18209	-0.00899	-0.00006	-0.00418
49.75	-0.26587	0.18082	-0.01016	0.00006	-0.00418
50.25	-0.25938	0.17879	-0.01116	0.00012	-0.00420
50.75	-0.25680	0.17978	-0.01201	-0.00001	-0.00412
51.25	-0.25420	0.17894	-0.01199	0.00000	-0.00403
51.75	-0.26886	0.18752	-0.01210	0.00002	-0.00404
52.25	-0.27986	0.19466	-0.01134	-0.00007	-0.00416
52.75	-0.27552	0.19090	-0.01186	0.00016	-0.00440
53.25	-0.26660	0.18574	-0.01246	0.00025	-0.00443
53.75	-0.25406	0.17819	-0.01338	0.00036	-0.00450
54.25	-0.24471	0.17235	-0.01381	0.00052	-0.00462
54.75	-0.23975	0.16851	-0.01455	0.00068	-0.00473
55.25	-0.24531	0.17077	-0.01430	0.00083	-0.00481
55.75	-0.26022	0.18044	-0.01434	0.00075	-0.00467
56.25	-0.26942	0.18653	-0.01468	0.00063	-0.00443
56.75	-0.26805	0.18741	-0.01525	0.00047	-0.00417
57.25	-0.26311	0.18524	-0.01578	0.00056	-0.00405
57.75	-0.25582	0.18118	-0.01607	0.00065	-0.00407
58.25	-0.25092	0.17920	-0.01512	0.00059	-0.00435
58.75	-0.24961	0.18017	-0.01403	0.00037	-0.00454
59.25	-0.25129	0.18357	-0.01278	0.00006	-0.00454
59.75	-0.25337	0.18657	-0.01214	-0.00027	-0.00430
60.25	-0.25249	0.18439	-0.01167	-0.00028	-0.00433
60.75	-0.25986	0.18743	-0.01203	-0.00015	-0.00439
61.25	-0.25890	0.18505	-0.01229	0.00005	-0.00453
61.75	-0.26497	0.18911	-0.01236	0.00007	-0.00455

62.25	-0.26930	0.19283	-0.01139	-0.00010	-0.00443
62.75	-0.26568	0.19096	-0.01010	-0.00016	-0.00427
63.25	-0.26122	0.18739	-0.00871	-0.00013	-0.00405
63.75	-0.25178	0.18010	-0.00756	0.00000	-0.00420
64.25	-0.24352	0.17223	-0.00635	0.00015	-0.00459
64.75	-0.23978	0.16849	-0.00554	0.00021	-0.00493
65.25	-0.23615	0.16770	-0.00498	0.00009	-0.00494
65.75	-0.24430	0.17539	-0.00490	-0.00017	-0.00468
66.25	-0.25826	0.18768	-0.00578	-0.00030	-0.00422
66.75	-0.26701	0.19369	-0.00562	-0.00026	-0.00408
67.25	-0.27438	0.19834	-0.00514	-0.00019	-0.00397
67.75	-0.27460	0.19801	-0.00458	-0.00016	-0.00400
68.25	-0.26404	0.18989	-0.00382	-0.00019	-0.00420
68.75	-0.25922	0.18675	-0.00361	-0.00028	-0.00414
69.25	-0.25670	0.18790	-0.00398	-0.00046	-0.00392
69.75	-0.24576	0.18240	-0.00550	-0.00037	-0.00383
70.25	-0.23843	0.18066	-0.00812	-0.00012	-0.00399
70.75	-0.23999	0.18355	-0.01004	0.00003	-0.00409
71.25	-0.25145	0.19209	-0.01230	0.00021	-0.00407
71.75	-0.26571	0.20114	-0.01406	0.00040	-0.00413
72.25	-0.27483	0.20562	-0.01545	0.00054	-0.00420
72.75	-0.26537	0.19930	-0.01597	0.00051	-0.00421
73.25	-0.25180	0.19123	-0.01670	0.00043	-0.00408
73.75	-0.24559	0.18969	-0.01632	0.00019	-0.00398
74.25	-0.25153	0.19548	-0.01588	0.00013	-0.00406
74.75	-0.25176	0.19538	-0.01497	0.00018	-0.00427
75.25	-0.24927	0.19211	-0.01315	0.00000	-0.00438
75.75	-0.23668	0.18182	-0.01276	0.00000	-0.00433
76.25	-0.23162	0.17717	-0.01283	0.00003	-0.00432
76.75	-0.23079	0.17650	-0.01411	0.00008	-0.00416
77.24	-0.24121	0.18477	-0.01577	0.00018	-0.00377
77.75	-0.24066	0.18506	-0.01807	0.00043	-0.00351
78.25	-0.24566	0.19261	-0.01928	0.00050	-0.00304
78.75	-0.23903	0.18959	-0.01881	0.00051	-0.00292
79.25	-0.23277	0.18549	-0.01754	0.00041	-0.00302
79.75	-0.23262	0.18303	-0.01667	0.00036	-0.00327
80.25	-0.23871	0.18508	-0.01649	0.00022	-0.00316
80.75	-0.24218	0.18620	-0.01681	0.00032	-0.00270
81.25	-0.24448	0.18784	-0.01706	0.00051	-0.00212
81.75	-0.24632	0.19204	-0.01563	0.00028	-0.00174
82.25	-0.24027	0.18975	-0.01370	0.00008	-0.00159
82.75	-0.23748	0.18880	-0.01345	0.00015	-0.00172

83.25	-0.23753	0.18910	-0.01497	0.00024	-0.00182
83.75	-0.23209	0.18541	-0.01593	0.00006	-0.00179
84.25	-0.23538	0.18588	-0.01648	-0.00002	-0.00159
84.75	-0.24272	0.19081	-0.01549	0.00020	-0.00152
85.25	-0.23143	0.18527	-0.01341	0.00041	-0.00151
85.75	-0.22310	0.18257	-0.01196	0.00010	-0.00110
86.25	-0.23362	0.19082	-0.01172	-0.00025	-0.00055
86.75	-0.23358	0.18779	-0.01080	-0.00029	-0.00029
87.25	-0.21318	0.17326	-0.00992	-0.00002	-0.00019
87.76	-0.21599	0.17673	-0.00832	-0.00019	0.00034
88.26	-0.22910	0.18722	-0.00786	-0.00039	0.00084
88.76	-0.24028	0.19674	-0.00608	-0.00062	0.00108
89.27	-0.25114	0.20629	-0.00534	-0.00117	0.00199
89.70	-0.22839	0.19317	-0.00408	-0.00128	0.00258

Table 33. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=0^\circ,\ \dot{\varphi}=7$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	00°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.22	-0.15471	0.22122	-0.00460	-0.00124	0.00139
0.74	-0.14814	0.22029	-0.00206	-0.00208	0.00161
1.24	-0.15517	0.22036	-0.00313	-0.00224	0.00011
1.74	-0.15582	0.22339	-0.00752	-0.00223	-0.00106
2.25	-0.16094	0.22697	-0.01220	-0.00216	-0.00156
2.74	-0.15782	0.22893	-0.01746	-0.00284	-0.00161
3.24	-0.14188	0.21711	-0.02287	-0.00298	-0.00155
3.74	-0.13951	0.21487	-0.02824	-0.00281	-0.00155
4.25	-0.14576	0.22290	-0.03275	-0.00322	-0.00142
4.75	-0.15822	0.23050	-0.03845	-0.00310	-0.00199
5.25	-0.16076	0.22819	-0.04509	-0.00281	-0.00218
5.75	-0.14933	0.21976	-0.05215	-0.00258	-0.00237
6.25	-0.13982	0.21842	-0.05797	-0.00283	-0.00262
6.75	-0.13415	0.21804	-0.06298	-0.00318	-0.00274
7.25	-0.13167	0.21886	-0.06829	-0.00360	-0.00263
7.75	-0.13575	0.22173	-0.07350	-0.00380	-0.00277
8.25	-0.13622	0.22113	-0.07971	-0.00351	-0.00287
8.75	-0.13131	0.21429	-0.08492	-0.00340	-0.00300
9.25	-0.12907	0.21102	-0.09070	-0.00344	-0.00317
9.75	-0.13466	0.21427	-0.09686	-0.00337	-0.00341
10.25	-0.13307	0.21323	-0.10303	-0.00321	-0.00367
10.75	-0.13082	0.21111	-0.10802	-0.00319	-0.00407
11.25	-0.12383	0.20595	-0.11268	-0.00326	-0.00438
11.75	-0.12205	0.20580	-0.11824	-0.00327	-0.00459
12.25	-0.12521	0.20935	-0.12331	-0.00349	-0.00455
12.75	-0.12970	0.21417	-0.12946	-0.00351	-0.00462
13.25	-0.12888	0.21460	-0.13660	-0.00350	-0.00474
13.75	-0.13462	0.21424	-0.14274	-0.00342	-0.00504
14.25	-0.13547	0.21330	-0.14902	-0.00334	-0.00500
14.75	-0.14004	0.21547	-0.15365	-0.00339	-0.00489
15.25	-0.13417	0.21125	-0.15795	-0.00343	-0.00482
15.75	-0.12186	0.20516	-0.16279	-0.00367	-0.00463
16.25	-0.11667	0.20173	-0.16773	-0.00379	-0.00471
16.75	-0.11940	0.20258	-0.17268	-0.00376	-0.00483
17.24	-0.12434	0.20375	-0.17862	-0.00382	-0.00472

17.75	-0.12909	0.20500	-0.18589	-0.00372	-0.00461
18.26	-0.13276	0.20802	-0.19331	-0.00383	-0.00443
18.75	-0.13649	0.21404	-0.20025	-0.00405	-0.00448
19.25	-0.13709	0.21721	-0.20696	-0.00406	-0.00452
19.75	-0.13037	0.21379	-0.21228	-0.00397	-0.00466
20.25	-0.12837	0.21243	-0.21633	-0.00403	-0.00467
20.74	-0.13821	0.21770	-0.21968	-0.00435	-0.00455
21.25	-0.14326	0.21932	-0.22412	-0.00443	-0.00430
21.75	-0.15206	0.22274	-0.22874	-0.00458	-0.00419
22.25	-0.15737	0.22112	-0.23294	-0.00457	-0.00459
22.75	-0.16410	0.22000	-0.23638	-0.00442	-0.00500
23.25	-0.15992	0.21171	-0.23832	-0.00432	-0.00516
23.75	-0.15902	0.20747	-0.24006	-0.00418	-0.00524
24.25	-0.15730	0.20346	-0.24139	-0.00409	-0.00527
24.75	-0.15572	0.20017	-0.24179	-0.00407	-0.00527
25.25	-0.15132	0.19386	-0.24098	-0.00401	-0.00530
25.75	-0.15063	0.18911	-0.23997	-0.00396	-0.00544
26.25	-0.15066	0.18523	-0.24011	-0.00397	-0.00554
26.75	-0.15889	0.18653	-0.24215	-0.00378	-0.00564
27.25	-0.16349	0.18486	-0.24429	-0.00360	-0.00581
27.75	-0.17198	0.18584	-0.24611	-0.00345	-0.00589
28.25	-0.17750	0.18348	-0.24674	-0.00335	-0.00632
28.75	-0.18265	0.18065	-0.24771	-0.00308	-0.00666
29.25	-0.19395	0.18364	-0.24857	-0.00296	-0.00662
29.75	-0.20958	0.19077	-0.24972	-0.00297	-0.00637
30.25	-0.21752	0.19298	-0.24937	-0.00313	-0.00616
30.75	-0.22019	0.19119	-0.24984	-0.00310	-0.00619
31.25	-0.22014	0.18638	-0.25068	-0.00298	-0.00635
31.75	-0.22094	0.18108	-0.25159	-0.00286	-0.00676
32.25	-0.22173	0.17616	-0.25125	-0.00278	-0.00692
32.75	-0.22640	0.17319	-0.25161	-0.00269	-0.00705
33.25	-0.23123	0.17216	-0.25260	-0.00264	-0.00701
33.75	-0.24534	0.17707	-0.25343	-0.00263	-0.00715
34.25	-0.25238	0.17810	-0.25385	-0.00254	-0.00741
34.75	-0.25903	0.17619	-0.25376	-0.00243	-0.00759
35.25	-0.26961	0.17993	-0.25382	-0.00255	-0.00756
35.75	-0.28079	0.18410	-0.25531	-0.00264	-0.00750

36.25	-0.29375	0.18754	-0.25790	-0.00240	-0.00747
36.75	-0.30594	0.19035	-0.25987	-0.00220	-0.00743
37.25	-0.31153	0.18709	-0.26027	-0.00183	-0.00773
37.75	-0.31080	0.17810	-0.25863	-0.00164	-0.00819
38.25	-0.30802	0.16937	-0.25695	-0.00160	-0.00859
38.75	-0.30950	0.16534	-0.25611	-0.00156	-0.00867
39.25	-0.31789	0.16819	-0.25520	-0.00193	-0.00854
39.75	-0.33350	0.17572	-0.25582	-0.00213	-0.00858
40.25	-0.33807	0.17264	-0.25600	-0.00216	-0.00869
40.75	-0.34208	0.16784	-0.25648	-0.00196	-0.00889
41.25	-0.34764	0.16522	-0.25614	-0.00206	-0.00899
41.75	-0.35088	0.16229	-0.25563	-0.00207	-0.00908
42.25	-0.35887	0.16341	-0.25562	-0.00195	-0.00916
42.75	-0.35827	0.15871	-0.25442	-0.00185	-0.00936
43.24	-0.36734	0.16049	-0.25465	-0.00162	-0.00958
43.75	-0.37836	0.16306	-0.25479	-0.00136	-0.00963
44.25	-0.39215	0.16769	-0.25407	-0.00146	-0.00954
44.75	-0.40073	0.16844	-0.25425	-0.00149	-0.00959
45.25	-0.40344	0.16467	-0.25459	-0.00161	-0.00951
45.75	-0.39601	0.15735	-0.25440	-0.00171	-0.00933
46.25	-0.38914	0.15175	-0.25639	-0.00171	-0.00938
46.75	-0.38685	0.14868	-0.25978	-0.00149	-0.00942
47.25	-0.38895	0.14925	-0.26445	-0.00116	-0.00956
47.75	-0.38997	0.15001	-0.26746	-0.00113	-0.00947
48.25	-0.39189	0.15137	-0.26993	-0.00129	-0.00931
48.75	-0.39445	0.15249	-0.27153	-0.00145	-0.00921
49.25	-0.39526	0.15187	-0.27097	-0.00154	-0.00909
49.75	-0.39915	0.15096	-0.27182	-0.00151	-0.00899
50.25	-0.40137	0.14808	-0.27303	-0.00141	-0.00897
50.75	-0.40948	0.15009	-0.27537	-0.00133	-0.00881
51.25	-0.41386	0.14935	-0.27778	-0.00113	-0.00859
51.75	-0.41692	0.14979	-0.27977	-0.00106	-0.00852
52.25	-0.41677	0.14996	-0.28166	-0.00108	-0.00861
52.75	-0.41388	0.14708	-0.28179	-0.00124	-0.00879
53.25	-0.41585	0.14801	-0.28275	-0.00146	-0.00874
53.75	-0.41548	0.14570	-0.28435	-0.00139	-0.00876
54.25	-0.41849	0.14391	-0.28524	-0.00132	-0.00878

54.75 -0.42010 0.14192 -0.28672 -0.00127 -0.00875 55.25 -0.42261 0.14138 -0.28870 -0.00110 -0.00871 55.75 -0.42367 0.14221 -0.29102 -0.00099 -0.00844 56.25 -0.43107 0.14639 -0.29259 -0.00101 -0.00827 56.75 -0.43377 0.14797 -0.29375 -0.00108 -0.00827 57.25 -0.43937 0.15016 -0.29534 -0.00113 -0.00809 57.75 -0.44009 0.14825 -0.29607 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.43599 0.14076 -0.29765 -0.00179 -0.00796 60.25 -0.44561 0.14000 -0.29773 -0.00201 -0.00766						
55.75 -0.42367 0.14221 -0.29102 -0.00099 -0.00844 56.25 -0.43107 0.14639 -0.29259 -0.00101 -0.00841 56.75 -0.43377 0.14797 -0.29375 -0.00108 -0.00827 57.25 -0.43937 0.15016 -0.29534 -0.00113 -0.00809 57.75 -0.44009 0.14825 -0.29584 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.44569 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.4353 0.13284 -0.29710 -0.00201 -0.00766 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746	54.75	-0.42010	0.14192	-0.28672	-0.00127	-0.00875
56.25 -0.43107 0.14639 -0.29259 -0.00101 -0.00841 56.75 -0.43377 0.14797 -0.29375 -0.00108 -0.00827 57.25 -0.43937 0.15016 -0.29534 -0.00113 -0.00809 57.75 -0.44009 0.14825 -0.29584 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00796 60.25 -0.44591 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29773 -0.00217 -0.00766 61.25 -0.44561 0.14000 -0.29773 -0.00230 -0.00746	55.25	-0.42261	0.14138	-0.28870	-0.00110	-0.00871
56.75 -0.43377 0.14797 -0.29375 -0.00108 -0.00827 57.25 -0.43937 0.15016 -0.29534 -0.00113 -0.00809 57.75 -0.44009 0.14825 -0.29584 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29765 -0.00179 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00796 60.25 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00237 -0.00724 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00714	55.75	-0.42367	0.14221	-0.29102	-0.00099	-0.00844
57.25 -0.43937 0.15016 -0.29534 -0.00113 -0.00809 57.75 -0.44009 0.14825 -0.29584 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29773 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00237 -0.00724 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00711 63.25 -0.48038 0.15694 -0.30224 -0.00211 -0.00716	56.25	-0.43107	0.14639	-0.29259	-0.00101	-0.00841
57.75 -0.44009 0.14825 -0.29584 -0.00123 -0.00816 58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.00833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29765 -0.00179 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00214 -0.00718	56.75	-0.43377	0.14797	-0.29375	-0.00108	-0.00827
58.25 -0.44062 0.14526 -0.29607 -0.00124 -0.0833 58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29765 -0.00179 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30228 -0.00214 -0.00718	57.25	-0.43937	0.15016	-0.29534	-0.00113	-0.00809
58.75 -0.44473 0.14539 -0.29706 -0.00127 -0.00834 59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754	57.75	-0.44009	0.14825	-0.29584	-0.00123	-0.00816
59.25 -0.44566 0.14410 -0.29788 -0.00139 -0.00815 59.75 -0.45029 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 65.25 -0.46655 0.13313 -0.29984 -0.00223 -0.00741	58.25	-0.44062	0.14526	-0.29607	-0.00124	-0.00833
59.75 -0.45029 0.14551 -0.29794 -0.00161 -0.00796 60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00223 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718	58.75	-0.44473	0.14539	-0.29706	-0.00127	-0.00834
60.25 -0.44599 0.14076 -0.29765 -0.00179 -0.00795 60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672	59.25	-0.44566	0.14410	-0.29788	-0.00139	-0.00815
60.75 -0.43759 0.13452 -0.29710 -0.00201 -0.00786 61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29989 -0.00276 -0.00718 65.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30129 -0.00294 -0.00653	59.75	-0.45029	0.14551	-0.29794	-0.00161	-0.00796
61.25 -0.43453 0.13284 -0.29723 -0.00217 -0.00766 61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30129 -0.00291 -0.00653	60.25	-0.44599	0.14076	-0.29765	-0.00179	-0.00795
61.75 -0.44561 0.14000 -0.29773 -0.00230 -0.00746 62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637	60.75	-0.43759	0.13452	-0.29710	-0.00201	-0.00786
62.24 -0.46398 0.15114 -0.29962 -0.00237 -0.00724 62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645	61.25	-0.43453	0.13284	-0.29723	-0.00217	-0.00766
62.75 -0.48130 0.16036 -0.30224 -0.00219 -0.00711 63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00294 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645	61.75	-0.44561	0.14000	-0.29773	-0.00230	-0.00746
63.25 -0.48038 0.15694 -0.30267 -0.00211 -0.00706 63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.49025 0.13475 -0.31122 -0.00224 -0.00616	62.24	-0.46398	0.15114	-0.29962	-0.00237	-0.00724
63.75 -0.47179 0.14837 -0.30298 -0.00214 -0.00718 64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.49025 0.13475 -0.31122 -0.00224 -0.00634 69.25 -0.49025 0.13475 -0.31357 -0.00224 -0.00597	62.75	-0.48130	0.16036	-0.30224	-0.00219	-0.00711
64.25 -0.46235 0.13686 -0.30278 -0.00206 -0.00754 64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.50107 0.14287 -0.31357 -0.00254 -0.00594	63.25	-0.48038	0.15694	-0.30267	-0.00211	-0.00706
64.75 -0.46151 0.13239 -0.30113 -0.00223 -0.00754 65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49918 0.14064 -0.31284 -0.00224 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31267 -0.00257 -0.00605	63.75	-0.47179	0.14837	-0.30298	-0.00214	-0.00718
65.25 -0.46665 0.13313 -0.29984 -0.00250 -0.00741 65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31267 -0.00257 -0.00605	64.25	-0.46235	0.13686	-0.30278	-0.00206	-0.00754
65.74 -0.47524 0.13660 -0.29989 -0.00276 -0.00718 66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31267 -0.00257 -0.00605	64.75	-0.46151	0.13239	-0.30113	-0.00223	-0.00754
66.25 -0.47928 0.13985 -0.30088 -0.00294 -0.00672 66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00257 -0.00605 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	65.25	-0.46665	0.13313	-0.29984	-0.00250	-0.00741
66.76 -0.48090 0.14108 -0.30190 -0.00291 -0.00653 67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	65.74	-0.47524	0.13660	-0.29989	-0.00276	-0.00718
67.25 -0.48200 0.13899 -0.30285 -0.00296 -0.00637 67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	66.25	-0.47928	0.13985	-0.30088	-0.00294	-0.00672
67.75 -0.48051 0.13379 -0.30423 -0.00277 -0.00644 68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	66.76	-0.48090	0.14108	-0.30190	-0.00291	-0.00653
68.25 -0.47810 0.12859 -0.30578 -0.00245 -0.00645 68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	67.25	-0.48200	0.13899	-0.30285	-0.00296	-0.00637
68.75 -0.48222 0.13007 -0.30878 -0.00218 -0.00634 69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	67.75	-0.48051	0.13379	-0.30423	-0.00277	-0.00644
69.25 -0.49025 0.13475 -0.31122 -0.00224 -0.00616 69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	68.25	-0.47810	0.12859	-0.30578	-0.00245	-0.00645
69.75 -0.49918 0.14064 -0.31284 -0.00244 -0.00597 70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	68.75	-0.48222	0.13007	-0.30878	-0.00218	-0.00634
70.25 -0.50107 0.14287 -0.31357 -0.00254 -0.00594 70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	69.25	-0.49025	0.13475	-0.31122	-0.00224	-0.00616
70.75 -0.50291 0.14284 -0.31243 -0.00261 -0.00613 71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	69.75	-0.49918	0.14064	-0.31284	-0.00244	-0.00597
71.25 -0.50556 0.14340 -0.31267 -0.00257 -0.00605	70.25	-0.50107	0.14287	-0.31357	-0.00254	-0.00594
	70.75	-0.50291	0.14284	-0.31243	-0.00261	-0.00613
71.75 -0.50318 0.13939 -0.31287 -0.00229 -0.00610	71.25	-0.50556	0.14340	-0.31267	-0.00257	-0.00605
	71.75	-0.50318	0.13939	-0.31287	-0.00229	-0.00610
72.25 -0.50946 0.14123 -0.31467 -0.00209 -0.00582	72.25	-0.50946	0.14123	-0.31467	-0.00209	-0.00582
72.75 -0.51320 0.14251 -0.31746 -0.00204 -0.00557	72.75	-0.51320	0.14251	-0.31746	-0.00204	-0.00557

73.25 -0.					
73.23 -0.	.51777	0.14304	-0.31881	-0.00205	-0.00551
73.75 -0.	.51895	0.14275	-0.32063	-0.00202	-0.00531
74.25 -0.	.51818	0.13993	-0.32362	-0.00184	-0.00524
74.75 -0.	.52377	0.14256	-0.32572	-0.00180	-0.00506
75.25 -0.	.52345	0.14243	-0.32658	-0.00175	-0.00498
75.75 -0.	.52948	0.14640	-0.32676	-0.00188	-0.00475
76.25 -0.	.53111	0.14647	-0.32655	-0.00202	-0.00473
76.75 -0.	.52349	0.13880	-0.32510	-0.00199	-0.00486
77.25 -0.	.52506	0.13527	-0.32532	-0.00183	-0.00477
77.75 -0.	.52713	0.13335	-0.32547	-0.00154	-0.00455
78.25 -0.	.53874	0.13819	-0.32605	-0.00145	-0.00413
78.75 -0.	.54857	0.14334	-0.32634	-0.00153	-0.00361
79.25 -0.	.56031	0.14967	-0.32873	-0.00179	-0.00322
79.75 -0.	.56028	0.14900	-0.33114	-0.00192	-0.00294
80.25 -0.	.55285	0.14298	-0.33286	-0.00187	-0.00269
80.75 -0.	.55100	0.14118	-0.33201	-0.00188	-0.00217
81.25 -0.	.55243	0.14041	-0.33053	-0.00215	-0.00163
81.75 -0.	.54979	0.13797	-0.32824	-0.00247	-0.00148
82.25 -0.	.56091	0.14208	-0.32877	-0.00242	-0.00145
82.75 -0.	.58282	0.15343	-0.33143	-0.00207	-0.00142
83.25 -0.	.59393	0.15870	-0.33423	-0.00176	-0.00120
83.75 -0.	.58462	0.14987	-0.33560	-0.00157	-0.00098
84.25 -0.	.57790	0.14360	-0.33399	-0.00199	-0.00051
84.75 -0.	.58566	0.14741	-0.33258	-0.00231	-0.00017
85.25 -0.	.59006	0.14941	-0.33054	-0.00237	-0.00009
85.75 -0.	.58961	0.14823	-0.32811	-0.00245	-0.00004
86.25 -0.	.59897	0.15408	-0.32821	-0.00270	0.00038
86.75 -0.	.60135	0.15355	-0.33062	-0.00261	0.00106
87.25 -0.	.59299	0.14558	-0.33135	-0.00258	0.00130
87.75 -0.	.59659	0.14616	-0.33093	-0.00269	0.00195
88.25 -0.	.60855	0.15014	-0.32797	-0.00284	0.00233
88.76 -0.	.62016	0.15850	-0.32536	-0.00323	0.00304
89.27 -0.	.61824	0.15180	-0.32755	-0.00301	0.00336
89.71 -0.	.63224	0.16188	-0.32515	-0.00359	0.00433

Table 34. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$ $\alpha=5^{\circ},\ \dot{\varphi}=7$ °/sec

DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}		
0.22	0.14229	0.21352	-0.01419	0.00085	0.00250		
0.74	0.14371	0.21628	-0.01354	0.00017	0.00294		
1.24	0.12581	0.22424	-0.01229	-0.00053	0.00159		
1.74	0.13042	0.21749	-0.01513	-0.00062	-0.00070		
2.25	0.12677	0.22294	-0.02194	-0.00010	-0.00150		
2.75	0.11959	0.23042	-0.02820	0.00006	-0.00114		
3.25	0.14934	0.21745	-0.03308	-0.00031	-0.00116		
3.74	0.16195	0.21147	-0.03786	-0.00052	-0.00125		
4.25	0.15764	0.21486	-0.04196	-0.00057	-0.00162		
4.75	0.15740	0.21306	-0.04794	-0.00045	-0.00223		
5.25	0.16151	0.20641	-0.05404	-0.00048	-0.00230		
5.75	0.15959	0.20405	-0.06003	-0.00017	-0.00272		
6.25	0.15919	0.20559	-0.06640	0.00010	-0.00274		
6.75	0.16665	0.20378	-0.07194	-0.00002	-0.00261		
7.25	0.16069	0.20936	-0.07716	-0.00040	-0.00284		
7.75	0.15824	0.21068	-0.08216	-0.00071	-0.00321		
8.25	0.16581	0.20550	-0.08814	-0.00070	-0.00330		
8.75	0.17063	0.20252	-0.09380	-0.00075	-0.00330		
9.25	0.16809	0.20475	-0.10007	-0.00074	-0.00337		
9.75	0.16764	0.20676	-0.10550	-0.00102	-0.00334		
10.25	0.16718	0.20954	-0.11070	-0.00141	-0.00354		
10.75	0.16266	0.21447	-0.11654	-0.00158	-0.00397		
11.25	0.16630	0.21231	-0.12276	-0.00151	-0.00444		
11.75	0.17459	0.20602	-0.12941	-0.00121	-0.00476		
12.25	0.17928	0.20006	-0.13502	-0.00108	-0.00500		
12.75	0.17425	0.19742	-0.13975	-0.00111	-0.00518		
13.25	0.17043	0.19718	-0.14525	-0.00099	-0.00545		
13.75	0.16000	0.20186	-0.15065	-0.00093	-0.00550		
14.25	0.15085	0.21095	-0.15634	-0.00112	-0.00543		
14.75	0.15821	0.20850	-0.16244	-0.00130	-0.00532		
15.25	0.16879	0.20374	-0.16863	-0.00126	-0.00542		
15.74	0.18164	0.19766	-0.17514	-0.00125	-0.00559		
16.25	0.18351	0.19629	-0.18121	-0.00114	-0.00608		
16.75	0.17892	0.19864	-0.18598	-0.00125	-0.00648		
17.25	0.16902	0.20394	-0.19005	-0.00155	-0.00650		

17.75 0.16334 0.20541 -0.19492 -0.00160 -0.006 18.25 0.16008 0.20553 -0.19981 -0.00177 -0.006 18.75 0.16131 0.20081 -0.20512 -0.00170 -0.006 19.25 0.16170 0.19789 -0.21142 -0.00164 -0.006 19.75 0.15528 0.20144 -0.21796 -0.00155 -0.006 20.25 0.14967 0.20237 -0.22352 -0.00164 -0.006 20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006 24.25 </th <th>529 528 529 529 518 589 568 580</th>	529 528 529 529 518 589 568 580
18.75 0.16131 0.20081 -0.20512 -0.00170 -0.006 19.25 0.16170 0.19789 -0.21142 -0.00164 -0.006 19.75 0.15528 0.20144 -0.21796 -0.00155 -0.006 20.25 0.14967 0.20237 -0.22352 -0.00164 -0.006 20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	528 529 529 518 589 568 580 514
19.25 0.16170 0.19789 -0.21142 -0.00164 -0.006 19.75 0.15528 0.20144 -0.21796 -0.00155 -0.006 20.25 0.14967 0.20237 -0.22352 -0.00164 -0.006 20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	529 529 518 589 568 580 514
19.75 0.15528 0.20144 -0.21796 -0.00155 -0.006 20.25 0.14967 0.20237 -0.22352 -0.00164 -0.006 20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	529 518 589 568 580 514
20.25 0.14967 0.20237 -0.22352 -0.00164 -0.006 20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	518 589 568 580 514
20.75 0.14092 0.20843 -0.22987 -0.00184 -0.005 21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	589 568 580 514
21.25 0.14332 0.20840 -0.23544 -0.00207 -0.005 21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	568 580 514
21.75 0.14469 0.20655 -0.23972 -0.00229 -0.005 22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	580 514
22.25 0.14350 0.20720 -0.24394 -0.00228 -0.006 22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	514
22.75 0.13832 0.20742 -0.24658 -0.00220 -0.006 23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	
23.25 0.13010 0.20868 -0.24884 -0.00211 -0.006 23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	557
23.75 0.12336 0.20672 -0.24987 -0.00194 -0.006	
	573
24.25 0.11628 0.20563 -0.25051 -0.00180 -0.006	584
225 0.11020 0.20303 0.23031 0.00100 -0.000	573
24.75 0.11273 0.20322 -0.25103 -0.00179 -0.006	557
25.25 0.10614 0.20207 -0.25199 -0.00202 -0.006	547
25.75 0.10467 0.19944 -0.25286 -0.00236 -0.006	568
26.25 0.10706 0.19129 -0.25315 -0.00248 -0.007	707
26.75 0.09829 0.18802 -0.25289 -0.00223 -0.007	740
27.25 0.09161 0.18412 -0.25282 -0.00172 -0.007	780
27.75 0.08181 0.18287 -0.25390 -0.00118 -0.008	311
28.25 0.07395 0.18244 -0.25532 -0.00085 -0.008	341
28.75 0.06916 0.18197 -0.25663 -0.00063 -0.008	381
29.24 0.06715 0.17942 -0.25802 -0.00055 -0.009	912
29.75 0.06893 0.17425 -0.25925 -0.00050 -0.009) 51
30.25 0.06311 0.17278 -0.26004 -0.00051 -0.009	966
30.75 0.04762 0.17481 -0.26003 -0.00041 -0.009	974
31.25 0.02681 0.18155 -0.26072 -0.00024 -0.009	976
31.75 0.00550 0.18868 -0.26132 -0.00012 -0.009	974
32.25 -0.00169 0.18905 -0.26174 -0.00027 -0.009	968
32.75 -0.00569 0.18785 -0.26253 -0.00028 -0.009	73
33.25 -0.00705 0.18359 -0.26331 -0.00028 -0.009	999
33.75 -0.00617 0.17754 -0.26352 -0.00032 -0.010)45
34.25 -0.01068 0.17323 -0.26297 -0.00017 -0.011	109
34.74 -0.02050 0.17093 -0.26277 -0.00016 -0.011	136
35.25 -0.03266 0.17113 -0.26326 -0.00008 -0.011	152
35.75 -0.04374 0.16983 -0.26388 0.00009 -0.011	133

36.25 -0.05446 0.17201 -0.26512 0.00008 -0.01141 36.75 -0.06199 0.17259 -0.26462 0.00013 -0.01137 37.25 -0.06585 0.16890 -0.26466 0.00014 -0.01156 37.75 -0.07259 0.16573 -0.26385 0.00028 -0.01169 38.24 -0.08405 0.16428 -0.26393 0.00054 -0.01195 38.75 -0.09578 0.16243 -0.26408 0.00065 -0.01208 39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26561 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.0137 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 <						
37.25 -0.06585 0.16890 -0.26466 0.00014 -0.01156 37.75 -0.07259 0.16573 -0.26385 0.00028 -0.01169 38.24 -0.08405 0.16428 -0.26393 0.00054 -0.01195 38.75 -0.09578 0.16243 -0.26408 0.00065 -0.01208 39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26661 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26854 0.00128 -0.01333 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18796 0.15780 -0.26454 0.00108 -0.01375	36.25	-0.05446	0.17201	-0.26512	0.00008	-0.01141
37.75 -0.07259 0.16573 -0.26385 0.00028 -0.01169 38.24 -0.08405 0.16428 -0.26393 0.00054 -0.01195 38.75 -0.09578 0.16243 -0.26408 0.00065 -0.01208 39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26661 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26851 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18796 0.15780 -0.26454 0.00108 -0.01375	36.75	-0.06199	0.17259	-0.26542	0.00013	-0.01137
38.24 -0.08405 0.16428 -0.26393 0.00054 -0.01195 38.75 -0.09578 0.16243 -0.26408 0.00065 -0.01208 39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26561 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26881 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26681 0.00125 -0.01343 42.25 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18896 0.15780 -0.26457 0.00108 -0.01333 43.75 -0.18796 0.15780 -0.26382 0.00079 -0.01377	37.25	-0.06585	0.16890	-0.26466	0.00014	-0.01156
38.75 -0.09578 0.16243 -0.26408 0.00065 -0.01208 39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26561 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.25 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26351 0.00078 -0.01377	37.75	-0.07259	0.16573	-0.26385	0.00028	-0.01169
39.25 -0.10230 0.15857 -0.26422 0.00073 -0.01232 39.75 -0.11214 0.15702 -0.26561 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00172 -0.01363	38.24	-0.08405	0.16428	-0.26393	0.00054	-0.01195
39.75 -0.11214 0.15702 -0.26561 0.00094 -0.01269 40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26801 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00140 -0.01380	38.75	-0.09578	0.16243	-0.26408	0.00065	-0.01208
40.25 -0.11744 0.15494 -0.26673 0.00103 -0.01318 40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15305 -0.26813 0.00140 -0.01380	39.25	-0.10230	0.15857	-0.26422	0.00073	-0.01232
40.75 -0.12221 0.15212 -0.26792 0.00124 -0.01371 41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15305 -0.26813 0.00140 -0.01380 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01391	39.75	-0.11214	0.15702	-0.26561	0.00094	-0.01269
41.25 -0.13801 0.15744 -0.26851 0.00133 -0.01397 41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16308 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391	40.25	-0.11744	0.15494	-0.26673	0.00103	-0.01318
41.75 -0.15934 0.16651 -0.26854 0.00128 -0.01383 42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381	40.75	-0.12221	0.15212	-0.26792	0.00124	-0.01371
42.25 -0.17232 0.17021 -0.26801 0.00125 -0.01343 42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01331	41.25	-0.13801	0.15744	-0.26851	0.00133	-0.01397
42.75 -0.18488 0.17117 -0.26657 0.00131 -0.01325 43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.2773 0.00178 -0.01341 <	41.75	-0.15934	0.16651	-0.26854	0.00128	-0.01383
43.25 -0.18301 0.16174 -0.26502 0.00120 -0.01333 43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341	42.25	-0.17232	0.17021	-0.26801	0.00125	-0.01343
43.75 -0.18796 0.15780 -0.26454 0.00108 -0.01365 44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323	42.75	-0.18488	0.17117	-0.26657	0.00131	-0.01325
44.25 -0.20442 0.16236 -0.26382 0.00079 -0.01377 44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00170 -0.01264	43.25	-0.18301	0.16174	-0.26502	0.00120	-0.01333
44.75 -0.21766 0.16308 -0.26351 0.00078 -0.01379 45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00179 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244	43.75	-0.18796	0.15780	-0.26454	0.00108	-0.01365
45.25 -0.22844 0.16390 -0.26496 0.00094 -0.01375 45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28786 0.00175 -0.01225	44.25	-0.20442	0.16236	-0.26382	0.00079	-0.01377
45.75 -0.22813 0.15913 -0.26631 0.00122 -0.01363 46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28786 0.00177 -0.01244 51.25 -0.26030 0.14573 -0.28876 0.00159 -0.01192	44.75	-0.21766	0.16308	-0.26351	0.00078	-0.01379
46.25 -0.22309 0.15305 -0.26813 0.00140 -0.01380 46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192	45.25	-0.22844	0.16390	-0.26496	0.00094	-0.01375
46.75 -0.21851 0.14717 -0.27078 0.00164 -0.01391 47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28786 0.00155 -0.01192 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15987 -0.29178 0.00147 -0.01175	45.75	-0.22813	0.15913	-0.26631	0.00122	-0.01363
47.25 -0.21661 0.14432 -0.27306 0.00170 -0.01379 47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01192 52.75 -0.26030 0.14573 -0.28876 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175	46.25	-0.22309	0.15305	-0.26813	0.00140	-0.01380
47.75 -0.22261 0.14568 -0.27590 0.00185 -0.01381 48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28428 0.15942 -0.29329 0.00124 -0.01157 <td>46.75</td> <td>-0.21851</td> <td>0.14717</td> <td>-0.27078</td> <td>0.00164</td> <td>-0.01391</td>	46.75	-0.21851	0.14717	-0.27078	0.00164	-0.01391
48.25 -0.23017 0.14741 -0.27773 0.00193 -0.01372 48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01157 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157 <td>47.25</td> <td>-0.21661</td> <td>0.14432</td> <td>-0.27306</td> <td>0.00170</td> <td>-0.01379</td>	47.25	-0.21661	0.14432	-0.27306	0.00170	-0.01379
48.75 -0.23560 0.14861 -0.27891 0.00178 -0.01341 49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	47.75	-0.22261	0.14568	-0.27590	0.00185	-0.01381
49.25 -0.24423 0.15288 -0.28020 0.00166 -0.01323 49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	48.25	-0.23017	0.14741	-0.27773	0.00193	-0.01372
49.75 -0.25416 0.15616 -0.28211 0.00159 -0.01291 50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	48.75	-0.23560	0.14861	-0.27891	0.00178	-0.01341
50.25 -0.25560 0.15259 -0.28391 0.00170 -0.01264 50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	49.25	-0.24423	0.15288	-0.28020	0.00166	-0.01323
50.75 -0.25398 0.14668 -0.28557 0.00177 -0.01244 51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	49.75	-0.25416	0.15616	-0.28211	0.00159	-0.01291
51.25 -0.24771 0.14011 -0.28708 0.00175 -0.01225 51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	50.25	-0.25560	0.15259	-0.28391	0.00170	-0.01264
51.74 -0.25165 0.14026 -0.28786 0.00159 -0.01199 52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	50.75	-0.25398	0.14668	-0.28557	0.00177	-0.01244
52.25 -0.26030 0.14573 -0.28876 0.00155 -0.01192 52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	51.25	-0.24771	0.14011	-0.28708	0.00175	-0.01225
52.75 -0.27186 0.15365 -0.29002 0.00153 -0.01186 53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	51.74	-0.25165	0.14026	-0.28786	0.00159	-0.01199
53.25 -0.28097 0.15987 -0.29178 0.00147 -0.01175 53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	52.25	-0.26030	0.14573	-0.28876	0.00155	-0.01192
53.75 -0.28428 0.15942 -0.29329 0.00124 -0.01157	52.75	-0.27186	0.15365	-0.29002	0.00153	-0.01186
	53.25	-0.28097	0.15987	-0.29178	0.00147	-0.01175
54.25 -0.28971 0.15886 -0.29487 0.00097 -0.01137	53.75	-0.28428	0.15942	-0.29329	0.00124	-0.01157
	54.25	-0.28971	0.15886	-0.29487	0.00097	-0.01137

54.75 -0.29447 0.15823 -0.29608 0.00078 -0.01102 55.25 -0.30791 0.16257 -0.29798 0.00074 -0.01061 55.75 -0.31996 0.16439 -0.30020 0.00103 -0.01051 56.25 -0.32372 0.16065 -0.30155 0.00133 -0.01050 56.75 -0.32385 0.15485 -0.30191 0.00162 -0.01050 57.24 -0.32160 0.14935 -0.30258 0.00185 -0.01031 57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00998 59.25 -0.34408 0.14961 -0.30649 0.00103 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00928 60.25 -0.34845 0.14544 -0.30739 0.00052 -0.00866						
55.75 -0.31996 0.16439 -0.30020 0.00103 -0.01051 56.25 -0.32372 0.16065 -0.30155 0.00133 -0.01050 56.75 -0.32385 0.15485 -0.30191 0.00162 -0.01050 57.24 -0.32160 0.14935 -0.30258 0.00185 -0.01031 57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30649 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.25 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14944 -0.30853 0.00075 -0.0844 <	54.75	-0.29447	0.15823	-0.29608	0.00078	-0.01102
56.25 -0.32372 0.16065 -0.30155 0.00133 -0.01050 56.75 -0.32385 0.15485 -0.30191 0.00162 -0.01050 57.24 -0.32160 0.14935 -0.30258 0.00185 -0.01031 57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30649 0.00103 -0.00892 60.25 -0.34892 0.14862 -0.30649 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00893 60.75 -0.35240 0.14494 -0.30853 0.00075 -0.0841 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 <	55.25	-0.30791	0.16257	-0.29798	0.00074	-0.01061
56.75 -0.32385 0.15485 -0.30191 0.00162 -0.01050 57.24 -0.32160 0.14935 -0.30258 0.00185 -0.01031 57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30799 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780	55.75	-0.31996	0.16439	-0.30020	0.00103	-0.01051
57.24 -0.32160 0.14935 -0.30258 0.00185 -0.01031 57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00669	56.25	-0.32372	0.16065	-0.30155	0.00133	-0.01050
57.75 -0.32544 0.14935 -0.30367 0.00181 -0.01010 58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00739 63.25 -0.40811 0.16153 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30913 0.00056 -0.00655	56.75	-0.32385	0.15485	-0.30191	0.00162	-0.01050
58.25 -0.33585 0.15390 -0.30506 0.00164 -0.00999 58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00739 63.25 -0.40811 0.16153 -0.30828 0.00052 -0.00739 63.75 -0.40912 0.15750 -0.31112 0.00078 -0.00655 64.25 -0.40136 0.15260 -0.31120 0.00079 -0.00660	57.24	-0.32160	0.14935	-0.30258	0.00185	-0.01031
58.75 -0.34083 0.15575 -0.30644 0.00126 -0.00982 59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00739 63.25 -0.40811 0.16153 -0.30828 0.00052 -0.00739 63.25 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676	57.75	-0.32544	0.14935	-0.30367	0.00181	-0.01010
59.25 -0.34268 0.15261 -0.30649 0.00103 -0.00959 59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676	58.25	-0.33585	0.15390	-0.30506	0.00164	-0.00999
59.75 -0.34403 0.14961 -0.30673 0.00092 -0.00928 60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00739 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667	58.75	-0.34083	0.15575	-0.30644	0.00126	-0.00982
60.25 -0.34892 0.14862 -0.30687 0.00082 -0.00893 60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644	59.25	-0.34268	0.15261	-0.30649	0.00103	-0.00959
60.74 -0.34845 0.14544 -0.30709 0.00082 -0.00866 61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43141 0.15215 -0.31467 -0.00015 -0.00631	59.75	-0.34403	0.14961	-0.30673	0.00092	-0.00928
61.25 -0.35240 0.14494 -0.30853 0.00075 -0.00844 61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43141 0.15215 -0.31467 -0.00015 -0.00634 66.75 -0.43149 0.14752 -0.31325 -0.00023 -0.00624	60.25	-0.34892	0.14862	-0.30687	0.00082	-0.00893
61.75 -0.36427 0.14929 -0.30889 0.00061 -0.00811 62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43141 0.15215 -0.31467 -0.00015 -0.00634 66.75 -0.43141 0.15215 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627	60.74	-0.34845	0.14544	-0.30709	0.00082	-0.00866
62.25 -0.38315 0.15576 -0.30799 0.00051 -0.00780 62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43199 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627	61.25	-0.35240	0.14494	-0.30853	0.00075	-0.00844
62.75 -0.39706 0.15943 -0.30828 0.00052 -0.00739 63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611	61.75	-0.36427	0.14929	-0.30889	0.00061	-0.00811
63.25 -0.40811 0.16153 -0.30855 0.00051 -0.00690 63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.45346 0.15133 -0.31549 -0.00019 -0.00545	62.25	-0.38315	0.15576	-0.30799	0.00051	-0.00780
63.75 -0.40912 0.15750 -0.30913 0.00056 -0.00655 64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.45346 0.15133 -0.31549 -0.00015 -0.00584 69.25 -0.45346 0.15123 -0.31734 -0.00015 -0.00539 <td>62.75</td> <td>-0.39706</td> <td>0.15943</td> <td>-0.30828</td> <td>0.00052</td> <td>-0.00739</td>	62.75	-0.39706	0.15943	-0.30828	0.00052	-0.00739
64.25 -0.40913 0.15280 -0.31112 0.00078 -0.00660 64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45346 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 <td>63.25</td> <td>-0.40811</td> <td>0.16153</td> <td>-0.30855</td> <td>0.00051</td> <td>-0.00690</td>	63.25	-0.40811	0.16153	-0.30855	0.00051	-0.00690
64.75 -0.41036 0.15076 -0.31320 0.00093 -0.00676 65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.46179 0.14785 -0.32225 0.00001 -0.00562 <td>63.75</td> <td>-0.40912</td> <td>0.15750</td> <td>-0.30913</td> <td>0.00056</td> <td>-0.00655</td>	63.75	-0.40912	0.15750	-0.30913	0.00056	-0.00655
65.25 -0.41710 0.15250 -0.31418 0.00079 -0.00667 65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46120 0.14483 -0.32536 0.00024 -0.00565 <td>64.25</td> <td>-0.40913</td> <td>0.15280</td> <td>-0.31112</td> <td>0.00078</td> <td>-0.00660</td>	64.25	-0.40913	0.15280	-0.31112	0.00078	-0.00660
65.75 -0.42743 0.15786 -0.31521 0.00030 -0.00644 66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00005 -0.00531 <td>64.75</td> <td>-0.41036</td> <td>0.15076</td> <td>-0.31320</td> <td>0.00093</td> <td>-0.00676</td>	64.75	-0.41036	0.15076	-0.31320	0.00093	-0.00676
66.25 -0.43276 0.15808 -0.31580 0.00001 -0.00634 66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531 <td>65.25</td> <td>-0.41710</td> <td>0.15250</td> <td>-0.31418</td> <td>0.00079</td> <td>-0.00667</td>	65.25	-0.41710	0.15250	-0.31418	0.00079	-0.00667
66.75 -0.43141 0.15215 -0.31467 -0.00015 -0.00631 67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	65.75	-0.42743	0.15786	-0.31521	0.00030	-0.00644
67.25 -0.43119 0.14752 -0.31325 -0.00023 -0.00624 67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	66.25	-0.43276	0.15808	-0.31580	0.00001	-0.00634
67.75 -0.43088 0.14277 -0.31249 -0.00012 -0.00627 68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	66.75	-0.43141	0.15215	-0.31467	-0.00015	-0.00631
68.25 -0.43593 0.14370 -0.31337 -0.00009 -0.00611 68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	67.25	-0.43119	0.14752	-0.31325	-0.00023	-0.00624
68.75 -0.44398 0.14691 -0.31431 -0.00005 -0.00584 69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	67.75	-0.43088	0.14277	-0.31249	-0.00012	-0.00627
69.25 -0.45310 0.15133 -0.31549 -0.00019 -0.00545 69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	68.25	-0.43593	0.14370	-0.31337	-0.00009	-0.00611
69.75 -0.45846 0.15123 -0.31734 -0.00015 -0.00539 70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	68.75	-0.44398	0.14691	-0.31431	-0.00005	-0.00584
70.25 -0.45768 0.14710 -0.32017 0.00001 -0.00562 70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	69.25	-0.45310	0.15133	-0.31549	-0.00019	-0.00545
70.75 -0.46179 0.14785 -0.32225 0.00001 -0.00568 71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	69.75	-0.45846	0.15123	-0.31734	-0.00015	-0.00539
71.25 -0.46120 0.14483 -0.32536 0.00024 -0.00565 71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	70.25	-0.45768	0.14710	-0.32017	0.00001	-0.00562
71.75 -0.46673 0.14673 -0.32718 0.00017 -0.00555 72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	70.75	-0.46179	0.14785	-0.32225	0.00001	-0.00568
72.25 -0.47111 0.14793 -0.32833 0.00005 -0.00531	71.25	-0.46120	0.14483	-0.32536	0.00024	-0.00565
	71.75	-0.46673	0.14673	-0.32718	0.00017	-0.00555
72.75 -0.46860 0.14331 -0.32902 0.00019 -0.00527	72.25	-0.47111	0.14793	-0.32833	0.00005	-0.00531
	72.75	-0.46860	0.14331	-0.32902	0.00019	-0.00527

73.25	-0.47333	0.14347	-0.32932	0.00022	-0.00515
73.75	-0.47963	0.14564	-0.32955	0.00027	-0.00494
74.24	-0.49323	0.15140	-0.32950	0.00030	-0.00483
74.75	-0.50240	0.15393	-0.33041	0.00030	-0.00464
75.25	-0.51049	0.15513	-0.33107	0.00034	-0.00460
75.75	-0.51145	0.15180	-0.33174	0.00036	-0.00453
76.25	-0.50930	0.14601	-0.33284	0.00053	-0.00464
76.75	-0.51213	0.14508	-0.33451	0.00068	-0.00456
77.25	-0.50664	0.13874	-0.33570	0.00072	-0.00444
77.75	-0.51759	0.14361	-0.33823	0.00090	-0.00424
78.25	-0.52657	0.14693	-0.33948	0.00079	-0.00382
78.75	-0.54344	0.15482	-0.34019	0.00085	-0.00335
79.25	-0.55044	0.15504	-0.33991	0.00078	-0.00303
79.75	-0.55231	0.15321	-0.33891	0.00057	-0.00271
80.25	-0.54839	0.14888	-0.33880	0.00028	-0.00239
80.75	-0.55130	0.14902	-0.34009	0.00022	-0.00204
81.25	-0.56644	0.15816	-0.34204	0.00027	-0.00171
81.75	-0.57911	0.16623	-0.34277	0.00029	-0.00151
82.25	-0.58108	0.16534	-0.34297	0.00029	-0.00148
82.75	-0.58117	0.16055	-0.34194	0.00036	-0.00139
83.25	-0.58164	0.15639	-0.34084	0.00027	-0.00108
83.75	-0.58210	0.15432	-0.33898	-0.00019	-0.00057
84.25	-0.58877	0.15676	-0.33774	-0.00047	-0.00004
84.75	-0.59177	0.15640	-0.33656	-0.00033	0.00015
85.25	-0.59291	0.15344	-0.33650	0.00000	0.00041
85.75	-0.60621	0.15685	-0.33819	0.00026	0.00069
86.25	-0.61445	0.15781	-0.34023	0.00026	0.00078
86.75	-0.62651	0.16644	-0.34085	-0.00025	0.00153
87.25	-0.62375	0.16182	-0.33876	-0.00033	0.00173
87.75	-0.62371	0.15410	-0.33847	-0.00006	0.00194
88.25	-0.65456	0.17478	-0.33914	-0.00059	0.00271
88.76	-0.65093	0.17113	-0.33719	-0.00054	0.00289
89.27	-0.63612	0.15552	-0.33473	-0.00066	0.00357
89.71	-0.64620	0.16317	-0.33533	-0.00093	0.00476

Table 35. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=10^\circ,\ \dot{\varphi}=7$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	00°	
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}
0.22	0.35553	0.23987	-0.00614	-0.00257	0.00315
0.73	0.35672	0.23984	-0.00575	-0.00311	0.00313
1.24	0.33736	0.24392	-0.00509	-0.00377	0.00198
1.74	0.34336	0.23550	-0.00817	-0.00368	0.00009
2.25	0.36434	0.22708	-0.01506	-0.00308	-0.00066
2.74	0.37008	0.22835	-0.01866	-0.00323	-0.00031
3.25	0.36799	0.23091	-0.02504	-0.00334	-0.00030
3.74	0.37277	0.22511	-0.03224	-0.00345	-0.00119
4.25	0.37295	0.22274	-0.03682	-0.00364	-0.00151
4.75	0.36250	0.22996	-0.04116	-0.00376	-0.00159
5.25	0.36153	0.23012	-0.04688	-0.00387	-0.00134
5.74	0.37400	0.21773	-0.05310	-0.00380	-0.00148
6.25	0.37225	0.22000	-0.06033	-0.00380	-0.00200
6.75	0.36466	0.22541	-0.06678	-0.00370	-0.00234
7.25	0.36018	0.22924	-0.07180	-0.00367	-0.00247
7.75	0.36060	0.23015	-0.07618	-0.00383	-0.00254
8.25	0.36668	0.22782	-0.08139	-0.00394	-0.00256
8.75	0.36846	0.22574	-0.08722	-0.00403	-0.00227
9.25	0.36127	0.22776	-0.09383	-0.00411	-0.00218
9.75	0.35777	0.22491	-0.09946	-0.00421	-0.00235
10.25	0.36000	0.21856	-0.10460	-0.00429	-0.00295
10.74	0.36338	0.21750	-0.11065	-0.00442	-0.00345
11.25	0.36551	0.22052	-0.11690	-0.00452	-0.00382
11.75	0.36529	0.22473	-0.12262	-0.00451	-0.00399
12.25	0.36725	0.22281	-0.12757	-0.00453	-0.00398
12.75	0.37035	0.22270	-0.13312	-0.00457	-0.00394
13.25	0.36806	0.22251	-0.13870	-0.00486	-0.00391
13.75	0.36536	0.22352	-0.14421	-0.00513	-0.00393
14.25	0.36358	0.22176	-0.15009	-0.00522	-0.00413
14.75	0.36611	0.21691	-0.15533	-0.00526	-0.00430
15.25	0.36342	0.21662	-0.16084	-0.00526	-0.00435
15.75	0.35255	0.22296	-0.16672	-0.00517	-0.00444
16.25	0.34142	0.22961	-0.17228	-0.00515	-0.00463
16.75	0.33515	0.23354	-0.17711	-0.00543	-0.00482
17.24	0.34087	0.22934	-0.18183	-0.00580	-0.00470

17.75 0.34047 0.22854 -0.18741 -0.00596 -0.00449 18.25 0.33667 0.23134 -0.19407 -0.00597 -0.00423 18.75 0.33591 0.22858 -0.19985 -0.00579 -0.00423 19.25 0.34052 0.22385 -0.20648 -0.00556 -0.00430 19.75 0.33894 0.22091 -0.21179 -0.00561 -0.00439 20.25 0.33984 0.21817 -0.21725 -0.00565 -0.00447 20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00435 21.25 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00660 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21888 -0.24161 -0.00663 -0.00440						
18.75 0.33591 0.22858 -0.19985 -0.00579 -0.00423 19.25 0.34052 0.22385 -0.20648 -0.00556 -0.00430 19.75 0.33894 0.22091 -0.21179 -0.00561 -0.00439 20.25 0.33984 0.21817 -0.21725 -0.00565 -0.00447 20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00425 21.75 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33001 0.21556 -0.24024 -0.00656 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00428 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00599 -0.00458	17.75	0.34047	0.22854	-0.18741	-0.00596	-0.00449
19.25 0.34052 0.22385 -0.20648 -0.00556 -0.00430 19.75 0.33894 0.22091 -0.21179 -0.00561 -0.00439 20.25 0.33984 0.21817 -0.21725 -0.00565 -0.00447 20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00435 21.25 0.34093 0.21557 -0.2816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00448 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00599 -0.00458 <	18.25	0.33667	0.23134	-0.19407	-0.00597	-0.00423
19.75 0.33894 0.22091 -0.21179 -0.00561 -0.00439 20.25 0.33984 0.21817 -0.21725 -0.00565 -0.00447 20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00435 21.25 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00663 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00449 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00569 -0.00458 24.75 0.26991 0.22157 -0.24696 -0.00559 -0.00451	18.75	0.33591	0.22858	-0.19985	-0.00579	-0.00423
20.25 0.33984 0.21817 -0.21725 -0.00565 -0.00447 20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00435 21.25 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00663 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00454 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24465 -0.00559 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00451	19.25	0.34052	0.22385	-0.20648	-0.00556	-0.00430
20.75 0.33771 0.21836 -0.22247 -0.00591 -0.00435 21.25 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.2163 -0.24962 -0.00529 -0.00493 <	19.75	0.33894	0.22091	-0.21179	-0.00561	-0.00439
21.25 0.34093 0.21557 -0.22816 -0.00592 -0.00426 21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00478 -0.00523	20.25	0.33984	0.21817	-0.21725	-0.00565	-0.00447
21.75 0.34213 0.21234 -0.23298 -0.00606 -0.00422 22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00633 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.75 0.25188 0.20446 -0.25283 -0.00474 -0.00565	20.75	0.33771	0.21836	-0.22247	-0.00591	-0.00435
22.25 0.33707 0.21434 -0.23728 -0.00633 -0.00428 22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00552 27.75 0.25188 0.20046 -0.25283 -0.00447 -0.00618	21.25	0.34093	0.21557	-0.22816	-0.00592	-0.00426
22.75 0.33001 0.21556 -0.24024 -0.00656 -0.00438 23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00523 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00447 -0.00618	21.75	0.34213	0.21234	-0.23298	-0.00606	-0.00422
23.25 0.31957 0.21588 -0.24161 -0.00663 -0.00440 23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00523 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00447 -0.00618	22.25	0.33707	0.21434	-0.23728	-0.00633	-0.00428
23.75 0.30125 0.21962 -0.24283 -0.00639 -0.00454 24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00447 -0.00618 28.75 0.21698 0.20586 -0.25570 -0.00443 -0.00589	22.75	0.33001	0.21556	-0.24024	-0.00656	-0.00438
24.25 0.28588 0.22195 -0.24447 -0.00592 -0.00458 24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00447 -0.00609 29.25 0.21698 0.20586 -0.2570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 <	23.25	0.31957	0.21588	-0.24161	-0.00663	-0.00440
24.75 0.27391 0.22274 -0.24552 -0.00568 -0.00460 25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00447 -0.00618 29.75 0.21698 0.20586 -0.25770 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591	23.75	0.30125	0.21962	-0.24283	-0.00639	-0.00454
25.25 0.26991 0.22157 -0.24696 -0.00569 -0.00451 25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25708 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 31.75 0.20402 0.18810 -0.25703 -0.00376 -0.00646	24.25	0.28588	0.22195	-0.24447	-0.00592	-0.00458
25.75 0.26113 0.22356 -0.24832 -0.00559 -0.00457 26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00618 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679	24.75	0.27391	0.22274	-0.24552	-0.00568	-0.00460
26.24 0.26185 0.21663 -0.24962 -0.00529 -0.00493 26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00366 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00689	25.25	0.26991	0.22157	-0.24696	-0.00569	-0.00451
26.75 0.25789 0.21185 -0.25112 -0.00498 -0.00523 27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00683	25.75	0.26113	0.22356	-0.24832	-0.00559	-0.00457
27.25 0.25723 0.20491 -0.25165 -0.00478 -0.00565 27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.2570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25703 -0.00376 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00688 <	26.24	0.26185	0.21663	-0.24962	-0.00529	-0.00493
27.75 0.25188 0.20046 -0.25283 -0.00454 -0.00598 28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688	26.75	0.25789	0.21185	-0.25112	-0.00498	-0.00523
28.25 0.23914 0.20327 -0.25420 -0.00447 -0.00618 28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704	27.25	0.25723	0.20491	-0.25165	-0.00478	-0.00565
28.75 0.22382 0.20752 -0.25463 -0.00451 -0.00609 29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00361 -0.00738	27.75	0.25188	0.20046	-0.25283	-0.00454	-0.00598
29.25 0.21698 0.20586 -0.25570 -0.00443 -0.00589 29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00361 -0.00738	28.25	0.23914	0.20327	-0.25420	-0.00447	-0.00618
29.75 0.21270 0.20400 -0.25728 -0.00428 -0.00578 30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	28.75	0.22382	0.20752	-0.25463	-0.00451	-0.00609
30.25 0.21189 0.19832 -0.25790 -0.00414 -0.00591 30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	29.25	0.21698	0.20586	-0.25570	-0.00443	-0.00589
30.75 0.21188 0.19002 -0.25710 -0.00395 -0.00618 31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	29.75	0.21270	0.20400	-0.25728	-0.00428	-0.00578
31.25 0.20442 0.18810 -0.25703 -0.00376 -0.00646 31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	30.25	0.21189	0.19832	-0.25790	-0.00414	-0.00591
31.75 0.20000 0.18510 -0.25694 -0.00366 -0.00679 32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	30.75	0.21188	0.19002	-0.25710	-0.00395	-0.00618
32.25 0.19377 0.18427 -0.25709 -0.00361 -0.00689 32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	31.25	0.20442	0.18810	-0.25703	-0.00376	-0.00646
32.75 0.18678 0.18397 -0.25874 -0.00353 -0.00683 33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	31.75	0.20000	0.18510	-0.25694	-0.00366	-0.00679
33.25 0.18014 0.18200 -0.25957 -0.00340 -0.00688 33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	32.25	0.19377	0.18427	-0.25709	-0.00361	-0.00689
33.75 0.16319 0.18738 -0.25941 -0.00364 -0.00688 34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	32.75	0.18678	0.18397	-0.25874	-0.00353	-0.00683
34.25 0.14382 0.19278 -0.25870 -0.00384 -0.00704 34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	33.25	0.18014	0.18200	-0.25957	-0.00340	-0.00688
34.75 0.12901 0.19563 -0.25926 -0.00392 -0.00716 35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	33.75	0.16319	0.18738	-0.25941	-0.00364	-0.00688
35.25 0.11780 0.19402 -0.26031 -0.00361 -0.00738	34.25	0.14382	0.19278	-0.25870	-0.00384	-0.00704
	34.75	0.12901	0.19563	-0.25926	-0.00392	-0.00716
35.75 0.10794 0.19085 -0.26033 -0.00334 -0.00758	35.25	0.11780	0.19402	-0.26031	-0.00361	-0.00738
	35.75	0.10794	0.19085	-0.26033	-0.00334	-0.00758

36.25 0.10027 0.18528 -0.26141 -0.00288 -0.00777 36.75 0.09372 0.18262 -0.26268 -0.00263 -0.00791 37.25 0.09094 0.17707 -0.26332 -0.00259 -0.00802 37.75 0.08227 0.17702 -0.26295 -0.00259 -0.00845 38.25 0.06811 0.17971 -0.26240 -0.00277 -0.00903 38.75 0.05918 0.18146 -0.26118 -0.00294 -0.0093 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00272 -0.00984 40.75 0.03630 0.16711 -0.26098 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00993 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00979 42.25 0.00018 0.17185 -0.26012 -0.00249 -0.00999 <						
37.25 0.09094 0.17707 -0.26332 -0.00248 -0.00802 37.75 0.08227 0.17702 -0.26295 -0.00259 -0.00845 38.25 0.06811 0.17971 -0.26240 -0.00269 -0.00874 38.75 0.05918 0.18146 -0.26197 -0.00277 -0.00903 39.25 0.04883 0.18241 -0.26118 -0.00294 -0.00921 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00272 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00263 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00993 41.75 0.01580 0.16858 -0.26046 -0.00249 -0.00994 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.25 -0.0452 0.17632 -0.26127 -0.00239 -0.00964	36.25	0.10027	0.18528	-0.26141	-0.00288	-0.00777
37.75 0.08227 0.17702 -0.26295 -0.00259 -0.00845 38.25 0.06811 0.17971 -0.26240 -0.00269 -0.00874 38.75 0.05918 0.18146 -0.26197 -0.00277 -0.00903 39.25 0.04883 0.18241 -0.26118 -0.00294 -0.00921 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26204 -0.00272 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16811 -0.26092 -0.00263 -0.00993 42.25 0.0018 0.17185 -0.26046 -0.00249 -0.00993 42.25 0.0018 0.17185 -0.26046 -0.00244 -0.00994 42.25 0.00018 0.17632 -0.26127 -0.00239 -0.00964 42.25 -0.04523 0.17632 -0.26121 -0.00240 -0.00993 <	36.75	0.09372	0.18262	-0.26268	-0.00263	-0.00791
38.25 0.06811 0.17971 -0.26240 -0.00269 -0.00874 38.75 0.05918 0.18146 -0.26197 -0.00277 -0.00903 39.25 0.04883 0.18241 -0.26118 -0.00294 -0.00921 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00269 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00993 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26127 -0.00239 -0.00967 43.75 -0.04549 0.16685 -0.26212 -0.00222 -0.01027	37.25	0.09094	0.17707	-0.26332	-0.00248	-0.00802
38.75 0.05918 0.18146 -0.26197 -0.00277 -0.00903 39.25 0.04883 0.18241 -0.26118 -0.00294 -0.00921 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00269 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.260067 -0.00249 -0.00979 42.25 0.00018 0.17153 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00964 43.24 -0.02728 0.17632 -0.26127 -0.00239 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00224 -0.00127 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057	37.75	0.08227	0.17702	-0.26295	-0.00259	-0.00845
39.25 0.04883 0.18241 -0.26118 -0.00294 -0.00921 39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00272 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00200 -0.011057 44.75 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 <td>38.25</td> <td>0.06811</td> <td>0.17971</td> <td>-0.26240</td> <td>-0.00269</td> <td>-0.00874</td>	38.25	0.06811	0.17971	-0.26240	-0.00269	-0.00874
39.75 0.04571 0.17803 -0.26162 -0.00288 -0.00953 40.25 0.04542 0.17284 -0.26249 -0.00272 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01109 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 <td>38.75</td> <td>0.05918</td> <td>0.18146</td> <td>-0.26197</td> <td>-0.00277</td> <td>-0.00903</td>	38.75	0.05918	0.18146	-0.26197	-0.00277	-0.00903
40.25 0.04542 0.17284 -0.26249 -0.00272 -0.00984 40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01108 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 <td>39.25</td> <td>0.04883</td> <td>0.18241</td> <td>-0.26118</td> <td>-0.00294</td> <td>-0.00921</td>	39.25	0.04883	0.18241	-0.26118	-0.00294	-0.00921
40.75 0.03630 0.17050 -0.26208 -0.00269 -0.00993 41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 </td <td>39.75</td> <td>0.04571</td> <td>0.17803</td> <td>-0.26162</td> <td>-0.00288</td> <td>-0.00953</td>	39.75	0.04571	0.17803	-0.26162	-0.00288	-0.00953
41.25 0.02863 0.16711 -0.26092 -0.00263 -0.00988 41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 <	40.25	0.04542	0.17284	-0.26249	-0.00272	-0.00984
41.75 0.01580 0.16858 -0.26067 -0.00249 -0.00979 42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.011089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26650 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189	40.75	0.03630	0.17050	-0.26208	-0.00269	-0.00993
42.25 0.00018 0.17185 -0.26046 -0.00244 -0.00964 42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.75 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.0739 0.16264 -0.27174 -0.00129 -0.01183	41.25	0.02863	0.16711	-0.26092	-0.00263	-0.00988
42.75 -0.01452 0.17503 -0.26127 -0.00239 -0.00967 43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176	41.75	0.01580	0.16858	-0.26067	-0.00249	-0.00979
43.24 -0.02728 0.17632 -0.26121 -0.00240 -0.00993 43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.09237 0.15016 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27850 -0.00127 -0.01151	42.25	0.00018	0.17185	-0.26046	-0.00244	-0.00964
43.75 -0.03600 0.17468 -0.26212 -0.00222 -0.01027 44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01189 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27525 -0.00122 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114	42.75	-0.01452	0.17503	-0.26127	-0.00239	-0.00967
44.25 -0.04223 0.17153 -0.26212 -0.00216 -0.01057 44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.08237 0.15716 -0.27621 -0.00122 -0.01161 49.25 -0.08237 0.16471 -0.27850 -0.00139 -0.0114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093	43.24	-0.02728	0.17632	-0.26121	-0.00240	-0.00993
44.75 -0.04549 0.16685 -0.26232 -0.00200 -0.01089 45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00136 -0.01193 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075	43.75	-0.03600	0.17468	-0.26212	-0.00222	-0.01027
45.25 -0.04861 0.16103 -0.26218 -0.00200 -0.01110 45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.1196 0.16496 -0.28459 -0.00163 -0.01050	44.25	-0.04223	0.17153	-0.26212	-0.00216	-0.01057
45.75 -0.04843 0.15743 -0.26345 -0.00192 -0.01135 46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.11096 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.1196 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00166 -0.01079	44.75	-0.04549	0.16685	-0.26232	-0.00200	-0.01089
46.25 -0.05649 0.15882 -0.26441 -0.00199 -0.01157 46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00163 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00166 -0.01079	45.25	-0.04861	0.16103	-0.26218	-0.00200	-0.01110
46.75 -0.06301 0.15992 -0.26660 -0.00175 -0.01174 47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28451 -0.00186 -0.01109	45.75	-0.04843	0.15743	-0.26345	-0.00192	-0.01135
47.25 -0.06715 0.16026 -0.26959 -0.00137 -0.01189 47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00195 -0.01107	46.25	-0.05649	0.15882	-0.26441	-0.00199	-0.01157
47.75 -0.07339 0.16264 -0.27174 -0.00129 -0.01183 48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01109 52.75 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	46.75	-0.06301	0.15992	-0.26660	-0.00175	-0.01174
48.25 -0.07691 0.16199 -0.27389 -0.00114 -0.01176 48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	47.25	-0.06715	0.16026	-0.26959	-0.00137	-0.01189
48.75 -0.07959 0.16002 -0.27525 -0.00122 -0.01161 49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	47.75	-0.07339	0.16264	-0.27174	-0.00129	-0.01183
49.25 -0.08237 0.15716 -0.27621 -0.00127 -0.01151 49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	48.25	-0.07691	0.16199	-0.27389	-0.00114	-0.01176
49.75 -0.09360 0.16161 -0.27850 -0.00139 -0.01114 50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	48.75	-0.07959	0.16002	-0.27525	-0.00122	-0.01161
50.25 -0.10196 0.16471 -0.28147 -0.00136 -0.01093 50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	49.25	-0.08237	0.15716	-0.27621	-0.00127	-0.01151
50.75 -0.11063 0.16686 -0.28351 -0.00144 -0.01075 51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	49.75	-0.09360	0.16161	-0.27850	-0.00139	-0.01114
51.25 -0.11916 0.16915 -0.28461 -0.00155 -0.01052 51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	50.25	-0.10196	0.16471	-0.28147	-0.00136	-0.01093
51.75 -0.11935 0.16496 -0.28459 -0.00163 -0.01050 52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	50.75	-0.11063	0.16686	-0.28351	-0.00144	-0.01075
52.25 -0.11444 0.15858 -0.28482 -0.00166 -0.01079 52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	51.25	-0.11916	0.16915	-0.28461	-0.00155	-0.01052
52.75 -0.11165 0.15437 -0.28517 -0.00186 -0.01109 53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	51.75	-0.11935	0.16496	-0.28459	-0.00163	-0.01050
53.25 -0.12164 0.15683 -0.28625 -0.00195 -0.01107 53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	52.25	-0.11444	0.15858	-0.28482	-0.00166	-0.01079
53.75 -0.13182 0.15963 -0.28871 -0.00199 -0.01099	52.75	-0.11165	0.15437	-0.28517	-0.00186	-0.01109
	53.25	-0.12164	0.15683	-0.28625	-0.00195	-0.01107
54.25 -0.14253 0.16248 -0.29103 -0.00206 -0.01081	53.75	-0.13182	0.15963	-0.28871	-0.00199	-0.01099
	54.25	-0.14253	0.16248	-0.29103	-0.00206	-0.01081

54.75	-0.14494	0.15813	-0.29241	-0.00218	-0.01075
55.25	-0.14234	0.15271	-0.29399	-0.00215	-0.01067
55.75	-0.14937	0.15186	-0.29452	-0.00193	-0.01088
56.25	-0.15995	0.15460	-0.29452	-0.00197	-0.01103
56.75	-0.17468	0.16010	-0.29454	-0.00199	-0.01103
57.25	-0.18834	0.16440	-0.29565	-0.00191	-0.01094
57.75	-0.18859	0.15909	-0.29655	-0.00196	-0.01073
58.25	-0.18875	0.15447	-0.29761	-0.00210	-0.01088
58.75	-0.18670	0.14803	-0.29912	-0.00201	-0.01121
59.25	-0.18359	0.14298	-0.30004	-0.00217	-0.01124
59.75	-0.18823	0.14459	-0.30012	-0.00247	-0.01125
60.25	-0.20536	0.15346	-0.30008	-0.00268	-0.01107
60.75	-0.21583	0.15562	-0.30087	-0.00269	-0.01092
61.25	-0.22887	0.15828	-0.30150	-0.00260	-0.01071
61.75	-0.23202	0.15328	-0.30136	-0.00268	-0.01053
62.24	-0.23583	0.15050	-0.30265	-0.00268	-0.01066
62.75	-0.24872	0.15291	-0.30396	-0.00277	-0.01061
63.25	-0.25835	0.15342	-0.30530	-0.00261	-0.01058
63.75	-0.26446	0.15040	-0.30445	-0.00263	-0.01045
64.25	-0.26638	0.14585	-0.30377	-0.00263	-0.01065
64.75	-0.26872	0.13991	-0.30274	-0.00265	-0.01080
65.25	-0.27520	0.13900	-0.30207	-0.00290	-0.01061
65.74	-0.28591	0.14155	-0.30245	-0.00305	-0.01042
66.25	-0.30880	0.15342	-0.30522	-0.00325	-0.00989
66.75	-0.32226	0.15750	-0.30510	-0.00366	-0.00962
67.25	-0.32679	0.15530	-0.30501	-0.00376	-0.00941
67.74	-0.32746	0.14928	-0.30526	-0.00362	-0.00946
68.25	-0.32519	0.14136	-0.30662	-0.00336	-0.00966
68.75	-0.32753	0.13730	-0.30746	-0.00320	-0.00973
69.25	-0.33446	0.13977	-0.30903	-0.00323	-0.00955
69.75	-0.34823	0.14578	-0.31047	-0.00328	-0.00927
70.25	-0.36167	0.14920	-0.31090	-0.00338	-0.00921
70.75	-0.37624	0.15230	-0.31222	-0.00321	-0.00905
71.24	-0.38928	0.15506	-0.31331	-0.00323	-0.00858
71.75	-0.39799	0.15574	-0.31555	-0.00313	-0.00798
72.25	-0.40444	0.15683	-0.31646	-0.00326	-0.00745
72.75	-0.41389	0.16040	-0.31859	-0.00311	-0.00701

			1	1	
73.25	-0.42196	0.16015	-0.32030	-0.00300	-0.00664
73.75	-0.42768	0.15890	-0.32175	-0.00302	-0.00624
74.25	-0.43765	0.16036	-0.32289	-0.00317	-0.00578
74.75	-0.44294	0.15815	-0.32418	-0.00315	-0.00535
75.25	-0.45103	0.15674	-0.32527	-0.00332	-0.00487
75.75	-0.45404	0.15321	-0.32542	-0.00330	-0.00455
76.25	-0.46423	0.15368	-0.32637	-0.00306	-0.00449
76.75	-0.48601	0.16151	-0.32671	-0.00292	-0.00420
77.25	-0.49725	0.16376	-0.32610	-0.00292	-0.00392
77.75	-0.51071	0.16649	-0.32566	-0.00293	-0.00355
78.25	-0.50952	0.16145	-0.32495	-0.00318	-0.00311
78.75	-0.51425	0.16075	-0.32538	-0.00349	-0.00240
79.24	-0.51672	0.15914	-0.32590	-0.00380	-0.00180
79.75	-0.52756	0.16194	-0.32704	-0.00398	-0.00142
80.25	-0.54165	0.16600	-0.32871	-0.00403	-0.00118
80.75	-0.55163	0.16683	-0.33057	-0.00372	-0.00103
81.25	-0.55783	0.16593	-0.33192	-0.00348	-0.00089
81.75	-0.55744	0.16254	-0.33125	-0.00363	-0.00074
82.25	-0.56191	0.16322	-0.33148	-0.00370	-0.00049
82.75	-0.57564	0.16567	-0.33240	-0.00348	-0.00046
83.25	-0.58859	0.16552	-0.33312	-0.00324	-0.00045
83.75	-0.59836	0.16532	-0.33289	-0.00327	-0.00026
84.25	-0.60651	0.16685	-0.33172	-0.00331	0.00016
84.75	-0.60866	0.16677	-0.33080	-0.00345	0.00047
85.25	-0.60461	0.16468	-0.32926	-0.00393	0.00105
85.75	-0.60361	0.15846	-0.32992	-0.00391	0.00158
86.25	-0.62045	0.16010	-0.33197	-0.00360	0.00159
86.75	-0.63989	0.16877	-0.33226	-0.00381	0.00195
87.25	-0.63917	0.16912	-0.33064	-0.00444	0.00290
87.76	-0.64867	0.17056	-0.32866	-0.00413	0.00351
88.26	-0.64706	0.16258	-0.32802	-0.00368	0.00335
88.76	-0.66144	0.16939	-0.32980	-0.00385	0.00376
89.27	-0.66282	0.16529	-0.32771	-0.00442	0.00463
89.70	-0.67377	0.17362	-0.32401	-0.00491	0.00550

Table 36. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=15^\circ,\ \dot{\varphi}=7^\circ/sec$

DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$							
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}		
0.22	0.54425	0.23053	-0.02913	0.00296	0.00400		
0.73	0.55295	0.22477	-0.02772	0.00233	0.00404		
1.24	0.56134	0.21693	-0.02820	0.00231	0.00240		
1.74	0.55850	0.22188	-0.02970	0.00199	0.00113		
2.25	0.54798	0.22861	-0.03516	0.00224	0.00063		
2.74	0.52787	0.24354	-0.03992	0.00217	0.00078		
3.25	0.53195	0.24224	-0.04587	0.00195	0.00097		
3.75	0.54465	0.23195	-0.05166	0.00206	-0.00013		
4.25	0.55426	0.22365	-0.05665	0.00203	-0.00116		
4.75	0.55803	0.22238	-0.06238	0.00206	-0.00165		
5.25	0.55647	0.22549	-0.06863	0.00195	-0.00145		
5.74	0.55950	0.22322	-0.07391	0.00169	-0.00147		
6.25	0.56066	0.22002	-0.07830	0.00161	-0.00182		
6.75	0.55585	0.22116	-0.08433	0.00166	-0.00198		
7.25	0.53841	0.23244	-0.09080	0.00128	-0.00172		
7.75	0.52907	0.23812	-0.09648	0.00096	-0.00188		
8.25	0.52690	0.23708	-0.10102	0.00083	-0.00229		
8.75	0.54214	0.22698	-0.10601	0.00091	-0.00250		
9.25	0.55261	0.22164	-0.11174	0.00091	-0.00239		
9.75	0.54509	0.22595	-0.11791	0.00078	-0.00221		
10.25	0.53553	0.22848	-0.12344	0.00069	-0.00255		
10.75	0.53276	0.22468	-0.12831	0.00059	-0.00304		
11.25	0.53414	0.22037	-0.13324	0.00054	-0.00349		
11.75	0.53617	0.21666	-0.13853	0.00057	-0.00363		
12.25	0.53609	0.21606	-0.14471	0.00076	-0.00364		
12.75	0.53137	0.21690	-0.15079	0.00065	-0.00338		
13.25	0.53404	0.21426	-0.15630	0.00052	-0.00349		
13.75	0.53008	0.21645	-0.16195	0.00035	-0.00367		
14.25	0.52783	0.21624	-0.16755	0.00020	-0.00392		
14.75	0.51652	0.22081	-0.17320	0.00012	-0.00405		
15.25	0.51499	0.22255	-0.17896	-0.00006	-0.00393		
15.75	0.50911	0.22518	-0.18426	-0.00046	-0.00363		
16.25	0.50782	0.22261	-0.18928	-0.00064	-0.00381		
16.75	0.50346	0.21922	-0.19350	-0.00075	-0.00387		
17.25	0.50189	0.21367	-0.19828	-0.00075	-0.00371		

17.75	0.49449	0.01500	0.00.405	0.0000	
	U. 1 / 11 /	0.21502	-0.20407	-0.00082	-0.00339
18.25	0.48967	0.21431	-0.20882	-0.00096	-0.00321
18.75	0.48765	0.21273	-0.21433	-0.00106	-0.00318
19.25	0.48981	0.21087	-0.22085	-0.00099	-0.00320
19.75	0.48438	0.21387	-0.22740	-0.00099	-0.00317
20.25	0.48184	0.21574	-0.23340	-0.00096	-0.00325
20.74	0.46988	0.22121	-0.23897	-0.00105	-0.00317
21.25	0.47215	0.21656	-0.24437	-0.00122	-0.00337
21.75	0.47515	0.21172	-0.24867	-0.00161	-0.00341
22.25	0.47491	0.20977	-0.25264	-0.00192	-0.00375
22.75	0.46196	0.21215	-0.25579	-0.00205	-0.00402
23.25	0.44590	0.21352	-0.25826	-0.00180	-0.00421
23.75	0.43339	0.21357	-0.25855	-0.00163	-0.00407
24.24	0.42587	0.21046	-0.25956	-0.00119	-0.00397
24.75	0.42039	0.20729	-0.26135	-0.00086	-0.00402
25.25	0.41248	0.20500	-0.26172	-0.00082	-0.00400
25.75	0.40406	0.20288	-0.26245	-0.00087	-0.00405
26.25	0.40325	0.19598	-0.26312	-0.00079	-0.00429
26.75	0.39514	0.19179	-0.26371	-0.00058	-0.00460
27.25	0.38274	0.19415	-0.26474	-0.00044	-0.00477
27.75	0.36920	0.19815	-0.26631	-0.00029	-0.00479
28.25	0.35892	0.19870	-0.26792	-0.00002	-0.00516
28.75	0.35400	0.19514	-0.26911	0.00030	-0.00543
29.25	0.34725	0.19126	-0.26967	0.00055	-0.00544
29.75	0.34420	0.18564	-0.26999	0.00066	-0.00528
30.25	0.33073	0.18423	-0.26951	0.00065	-0.00494
30.75	0.32326	0.17898	-0.26883	0.00070	-0.00472
31.25	0.31695	0.17709	-0.26921	0.00068	-0.00462
31.75	0.30505	0.18130	-0.26984	0.00055	-0.00459
32.25	0.29196	0.18809	-0.27069	0.00034	-0.00457
32.75	0.28389	0.18760	-0.27191	0.00056	-0.00472
33.25	0.28053	0.18289	-0.27391	0.00095	-0.00510
33.75	0.27252	0.17734	-0.27499	0.00134	-0.00559
34.25	0.25448	0.17952	-0.27577	0.00160	-0.00588
34.75	0.23550	0.18549	-0.27656	0.00171	-0.00600
35.25	0.22435	0.18677	-0.27680	0.00163	-0.00576
35.75	0.21985	0.18320	-0.27652	0.00166	-0.00566

36.25 0.21402 0.18055 -0.27552 0.00164 -0.00555 36.75 0.21242 0.17402 -0.27445 0.00177 -0.00571 37.25 0.21194 0.16685 -0.27458 0.00218 -0.00591 37.75 0.20614 0.16347 -0.27550 0.00256 -0.00606 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00647 39.25 0.18881 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00674 42.25 0.10514 0.16281 -0.27574 0.00269 -0.00674 42.25 0.10514 0.16281 -0.27775 0.00289 -0.00674						
37.25 0.21194 0.16685 -0.27458 0.00218 -0.00591 37.75 0.20614 0.16347 -0.27550 0.00256 -0.00609 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27669 0.00238 -0.00674 39.25 0.18081 0.16260 -0.27699 0.00231 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27574 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671	36.25	0.21402	0.18055	-0.27552	0.00164	-0.00555
37.75 0.20614 0.16347 -0.27550 0.00256 -0.00609 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00726 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00670 41.25 0.1932 0.16283 -0.27574 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00726	36.75	0.21242	0.17402	-0.27445	0.00177	-0.00571
38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00726 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00676 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797	37.25	0.21194	0.16685	-0.27458	0.00218	-0.00591
38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27757 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00829	37.75	0.20614	0.16347	-0.27550	0.00256	-0.00609
39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832	38.25	0.19608	0.16444	-0.27669	0.00255	-0.00626
39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831	38.75	0.18849	0.16518	-0.27763	0.00246	-0.00647
40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16281 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831	39.25	0.18081	0.16260	-0.27699	0.00238	-0.00674
40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00880	39.75	0.16918	0.16329	-0.27651	0.00231	-0.00698
41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880	40.25	0.15897	0.16379	-0.27613	0.00237	-0.00728
41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28216 0.00450 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00456 -0.00871	40.75	0.14346	0.16517	-0.27489	0.00244	-0.00726
42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00456 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851	41.25	0.13260	0.16342	-0.27504	0.00259	-0.00704
42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.75 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.299210 0.00396 -0.00812	41.75	0.11932	0.16283	-0.27577	0.00269	-0.00677
43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812	42.25	0.10514	0.16281	-0.27646	0.00273	-0.00656
43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00448 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812	42.75	0.09329	0.16193	-0.27725	0.00288	-0.00671
44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29418 0.00437 -0.00853	43.25	0.08904	0.15789	-0.27778	0.00322	-0.00720
44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00470 -0.00882	43.75	0.08618	0.15416	-0.27786	0.00341	-0.00761
45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.299697 0.00481 -0.00878	44.25	0.09011	0.14512	-0.27731	0.00372	-0.00797
45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864	44.75	0.08792	0.14149	-0.27722	0.00395	-0.00820
46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874	45.24	0.07934	0.14320	-0.27790	0.00408	-0.00832
46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874	45.75	0.06696	0.14993	-0.27936	0.00415	-0.00831
47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00461 -0.00911	46.25	0.05503	0.15266	-0.28056	0.00432	-0.00863
47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00461 -0.00911 53.75 -0.02282 0.15231 -0.30329 0.00461 -0.00919	46.75	0.05354	0.14902	-0.28216	0.00450	-0.00880
48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30317 0.00455 -0.00919 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	47.25	0.04956	0.14855	-0.28429	0.00456	-0.00880
48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	47.75	0.04369	0.14762	-0.28621	0.00454	-0.00871
49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	48.25	0.03285	0.15147	-0.28872	0.00448	-0.00851
49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	48.75	0.01814	0.15984	-0.29082	0.00426	-0.00829
50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	49.25	0.00891	0.16560	-0.29210	0.00396	-0.00812
50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	49.75	0.00957	0.16088	-0.29299	0.00401	-0.00825
51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	50.25	0.01784	0.15088	-0.29418	0.00437	-0.00853
51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	50.75	0.02025	0.14459	-0.29594	0.00470	-0.00882
52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	51.25	0.01035	0.14499	-0.29697	0.00481	-0.00878
52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	51.75	-0.00037	0.14779	-0.29980	0.00493	-0.00864
53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	52.25	-0.01091	0.15158	-0.30286	0.00495	-0.00874
53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	52.75	-0.02092	0.15379	-0.30357	0.00482	-0.00895
	53.25	-0.02282	0.15231	-0.30329	0.00461	-0.00911
54.25 -0.01972 0.14239 -0.30301 0.00456 -0.00937	53.75	-0.02490	0.14997	-0.30317	0.00455	-0.00919
	54.25	-0.01972	0.14239	-0.30301	0.00456	-0.00937

54.75	-0.02216	0.13768	-0.30396	0.00463	-0.00925
55.25	-0.03092	0.13722	-0.30620	0.00473	-0.00912
55.75	-0.04111	0.13819	-0.30846	0.00474	-0.00906
56.25	-0.05515	0.14080	-0.31032	0.00476	-0.00897
56.75	-0.06883	0.14355	-0.31010	0.00466	-0.00887
57.25	-0.08824	0.15020	-0.31112	0.00475	-0.00884
57.75	-0.09936	0.15312	-0.31162	0.00481	-0.00892
58.25	-0.10592	0.15377	-0.31222	0.00478	-0.00924
58.75	-0.09759	0.14726	-0.31241	0.00445	-0.00954
59.25	-0.09159	0.14026	-0.31365	0.00416	-0.00967
59.75	-0.09327	0.13809	-0.31448	0.00382	-0.00953
60.25	-0.09977	0.13756	-0.31581	0.00375	-0.00941
60.75	-0.10871	0.13918	-0.31822	0.00386	-0.00934
61.25	-0.11395	0.13902	-0.31842	0.00377	-0.00939
61.75	-0.12307	0.13920	-0.31642	0.00367	-0.00954
62.25	-0.13104	0.13981	-0.31427	0.00356	-0.00969
62.75	-0.14470	0.14318	-0.31259	0.00345	-0.00968
63.25	-0.15510	0.14419	-0.31200	0.00339	-0.00940
63.75	-0.16382	0.14425	-0.31255	0.00347	-0.00919
64.25	-0.16840	0.13966	-0.31305	0.00345	-0.00925
64.75	-0.17061	0.13367	-0.31460	0.00348	-0.00930
65.25	-0.17711	0.13086	-0.31436	0.00347	-0.00925
65.75	-0.18605	0.12856	-0.31413	0.00361	-0.00918
66.25	-0.20813	0.13557	-0.31468	0.00353	-0.00890
66.75	-0.23002	0.14509	-0.31536	0.00345	-0.00867
67.25	-0.24386	0.14918	-0.31645	0.00348	-0.00857
67.75	-0.24971	0.14970	-0.31785	0.00331	-0.00866
68.25	-0.25304	0.14519	-0.31924	0.00338	-0.00896
68.75	-0.25759	0.14225	-0.32024	0.00334	-0.00915
69.25	-0.26313	0.13917	-0.32133	0.00338	-0.00944
69.75	-0.26978	0.13751	-0.32219	0.00325	-0.00952
70.25	-0.27716	0.13733	-0.32219	0.00315	-0.00953
70.75	-0.28538	0.13891	-0.32218	0.00305	-0.00944
71.25	-0.28666	0.13552	-0.32270	0.00298	-0.00928
71.75	-0.28832	0.13113	-0.32355	0.00303	-0.00908
72.25	-0.29690	0.13014	-0.32567	0.00315	-0.00897
72.75	-0.30588	0.13061	-0.32693	0.00316	-0.00887

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73.25	-0.31000	0.12560	-0.32839	0.00329	-0.00887
73.75	-0.32017	0.12661	-0.32864	0.00322	-0.00868
74.25	-0.32840	0.12618	-0.32919	0.00328	-0.00859
74.75	-0.33954	0.12758	-0.33107	0.00326	-0.00831
75.25	-0.35865	0.13527	-0.33256	0.00310	-0.00802
75.75	-0.37082	0.13704	-0.33437	0.00325	-0.00790
76.25	-0.38340	0.13950	-0.33581	0.00339	-0.00785
76.75	-0.40071	0.14541	-0.33583	0.00334	-0.00747
77.25	-0.40649	0.14238	-0.33426	0.00331	-0.00688
77.75	-0.41621	0.14141	-0.33393	0.00327	-0.00623
78.25	-0.42885	0.14299	-0.33361	0.00309	-0.00529
78.75	-0.44728	0.14828	-0.33442	0.00289	-0.00427
79.25	-0.46280	0.15046	-0.33637	0.00298	-0.00344
79.75	-0.47380	0.15037	-0.33816	0.00318	-0.00282
80.25	-0.48364	0.14976	-0.33929	0.00317	-0.00228
80.75	-0.49067	0.14937	-0.33971	0.00306	-0.00153
81.25	-0.49723	0.14785	-0.34063	0.00294	-0.00096
81.75	-0.50462	0.14796	-0.33917	0.00269	-0.00056
82.25	-0.51426	0.14852	-0.33870	0.00248	-0.00022
82.75	-0.52370	0.14802	-0.33789	0.00241	-0.00006
83.25	-0.53475	0.14539	-0.33751	0.00261	-0.00005
83.75	-0.55150	0.14900	-0.33843	0.00290	0.00016
84.25	-0.55469	0.14747	-0.33857	0.00273	0.00061
84.75	-0.55787	0.14760	-0.33810	0.00228	0.00115
85.25	-0.57318	0.15286	-0.33915	0.00220	0.00164
85.75	-0.58841	0.15666	-0.33893	0.00212	0.00211
86.25	-0.59906	0.15818	-0.33716	0.00193	0.00243
86.75	-0.61531	0.16172	-0.33800	0.00221	0.00285
87.25	-0.61600	0.15858	-0.33796	0.00208	0.00339
87.76	-0.62063	0.15726	-0.33659	0.00167	0.00400
88.26	-0.64489	0.16320	-0.33599	0.00200	0.00399
88.76	-0.63510	0.15514	-0.33270	0.00175	0.00455
89.27	-0.63367	0.14470	-0.33421	0.00206	0.00489
89.71	-0.64988	0.15437	-0.33346	0.00211	0.00587

Table 37. Aerodynamic Coefficients, $U_{\infty}=6$ [in/sec], $Re=1.17x10^4$, $\alpha=20^\circ,\ \dot{\varphi}=7$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	00°	
φ (°)	C_N	C_{M}	C_S	C_{YM}	C_{RM}
0.22	0.54425	0.23053	-0.02913	0.00296	0.00400
0.73	0.55295	0.22477	-0.02772	0.00233	0.00404
1.24	0.56134	0.21693	-0.02820	0.00231	0.00240
1.74	0.55850	0.22188	-0.02970	0.00199	0.00113
2.25	0.54798	0.22861	-0.03516	0.00224	0.00063
2.74	0.52787	0.24354	-0.03992	0.00217	0.00078
3.25	0.53195	0.24224	-0.04587	0.00195	0.00097
3.75	0.54465	0.23195	-0.05166	0.00206	-0.00013
4.25	0.55426	0.22365	-0.05665	0.00203	-0.00116
4.75	0.55803	0.22238	-0.06238	0.00206	-0.00165
5.25	0.55647	0.22549	-0.06863	0.00195	-0.00145
5.74	0.55950	0.22322	-0.07391	0.00169	-0.00147
6.25	0.56066	0.22002	-0.07830	0.00161	-0.00182
6.75	0.55585	0.22116	-0.08433	0.00166	-0.00198
7.25	0.53841	0.23244	-0.09080	0.00128	-0.00172
7.75	0.52907	0.23812	-0.09648	0.00096	-0.00188
8.25	0.52690	0.23708	-0.10102	0.00083	-0.00229
8.75	0.54214	0.22698	-0.10601	0.00091	-0.00250
9.25	0.55261	0.22164	-0.11174	0.00091	-0.00239
9.75	0.54509	0.22595	-0.11791	0.00078	-0.00221
10.25	0.53553	0.22848	-0.12344	0.00069	-0.00255
10.75	0.53276	0.22468	-0.12831	0.00059	-0.00304
11.25	0.53414	0.22037	-0.13324	0.00054	-0.00349
11.75	0.53617	0.21666	-0.13853	0.00057	-0.00363
12.25	0.53609	0.21606	-0.14471	0.00076	-0.00364
12.75	0.53137	0.21690	-0.15079	0.00065	-0.00338
13.25	0.53404	0.21426	-0.15630	0.00052	-0.00349
13.75	0.53008	0.21645	-0.16195	0.00035	-0.00367
14.25	0.52783	0.21624	-0.16755	0.00020	-0.00392
14.75	0.51652	0.22081	-0.17320	0.00012	-0.00405
15.25	0.51499	0.22255	-0.17896	-0.00006	-0.00393
15.75	0.50911	0.22518	-0.18426	-0.00046	-0.00363
16.25	0.50782	0.22261	-0.18928	-0.00064	-0.00381
16.75	0.50346	0.21922	-0.19350	-0.00075	-0.00387
17.25	0.50189	0.21367	-0.19828	-0.00075	-0.00371

17.75	0.49449	0.21502	-0.20407	-0.00082	-0.00339
18.25	0.48967	0.21431	-0.20882	-0.00096	-0.00321
18.75	0.48765	0.21273	-0.21433	-0.00106	-0.00318
19.25	0.48981	0.21087	-0.22085	-0.00099	-0.00320
19.75	0.48438	0.21387	-0.22740	-0.00099	-0.00317
20.25	0.48184	0.21574	-0.23340	-0.00096	-0.00325
20.74	0.46988	0.22121	-0.23897	-0.00105	-0.00317
21.25	0.47215	0.21656	-0.24437	-0.00122	-0.00337
21.75	0.47515	0.21172	-0.24867	-0.00161	-0.00341
22.25	0.47491	0.20977	-0.25264	-0.00192	-0.00375
22.75	0.46196	0.21215	-0.25579	-0.00205	-0.00402
23.25	0.44590	0.21352	-0.25826	-0.00180	-0.00421
23.75	0.43339	0.21357	-0.25855	-0.00163	-0.00407
24.24	0.42587	0.21046	-0.25956	-0.00119	-0.00397
24.75	0.42039	0.20729	-0.26135	-0.00086	-0.00402
25.25	0.41248	0.20500	-0.26172	-0.00082	-0.00400
25.75	0.40406	0.20288	-0.26245	-0.00087	-0.00405
26.25	0.40325	0.19598	-0.26312	-0.00079	-0.00429
26.75	0.39514	0.19179	-0.26371	-0.00058	-0.00460
27.25	0.38274	0.19415	-0.26474	-0.00044	-0.00477
27.75	0.36920	0.19815	-0.26631	-0.00029	-0.00479
28.25	0.35892	0.19870	-0.26792	-0.00002	-0.00516
28.75	0.35400	0.19514	-0.26911	0.00030	-0.00543
29.25	0.34725	0.19126	-0.26967	0.00055	-0.00544
29.75	0.34420	0.18564	-0.26999	0.00066	-0.00528
30.25	0.33073	0.18423	-0.26951	0.00065	-0.00494
30.75	0.32326	0.17898	-0.26883	0.00070	-0.00472
31.25	0.31695	0.17709	-0.26921	0.00068	-0.00462
31.75	0.30505	0.18130	-0.26984	0.00055	-0.00459
32.25	0.29196	0.18809	-0.27069	0.00034	-0.00457
32.75	0.28389	0.18760	-0.27191	0.00056	-0.00472
33.25	0.28053	0.18289	-0.27391	0.00095	-0.00510
33.75	0.27252	0.17734	-0.27499	0.00134	-0.00559
34.25	0.25448	0.17952	-0.27577	0.00160	-0.00588
34.75	0.23550	0.18549	-0.27656	0.00171	-0.00600
35.25	0.22435	0.18677	-0.27680	0.00163	-0.00576
35.75	0.21985	0.18320	-0.27652	0.00166	-0.00566

36.25 0.21402 0.18055 -0.27552 0.00164 -0.00555 36.75 0.21242 0.17402 -0.27445 0.00177 -0.00571 37.25 0.21194 0.16685 -0.27458 0.00218 -0.00591 37.75 0.20614 0.16347 -0.27550 0.00256 -0.00606 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00647 39.25 0.18881 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00674 42.25 0.10514 0.16281 -0.27574 0.00269 -0.00674 42.25 0.10514 0.16281 -0.27775 0.00289 -0.00674						
37.25 0.21194 0.16685 -0.27458 0.00218 -0.00591 37.75 0.20614 0.16347 -0.27550 0.00256 -0.00609 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27669 0.00238 -0.00674 39.25 0.18081 0.16260 -0.27699 0.00231 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27574 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671	36.25	0.21402	0.18055	-0.27552	0.00164	-0.00555
37.75 0.20614 0.16347 -0.27550 0.00256 -0.00609 38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00726 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00670 41.25 0.1932 0.16283 -0.27574 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00726	36.75	0.21242	0.17402	-0.27445	0.00177	-0.00571
38.25 0.19608 0.16444 -0.27669 0.00255 -0.00626 38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00726 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00676 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797	37.25	0.21194	0.16685	-0.27458	0.00218	-0.00591
38.75 0.18849 0.16518 -0.27763 0.00246 -0.00647 39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27757 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00829	37.75	0.20614	0.16347	-0.27550	0.00256	-0.00609
39.25 0.18081 0.16260 -0.27699 0.00238 -0.00674 39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832	38.25	0.19608	0.16444	-0.27669	0.00255	-0.00626
39.75 0.16918 0.16329 -0.27651 0.00231 -0.00698 40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831	38.75	0.18849	0.16518	-0.27763	0.00246	-0.00647
40.25 0.15897 0.16379 -0.27613 0.00237 -0.00728 40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16281 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831	39.25	0.18081	0.16260	-0.27699	0.00238	-0.00674
40.75 0.14346 0.16517 -0.27489 0.00244 -0.00726 41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00880	39.75	0.16918	0.16329	-0.27651	0.00231	-0.00698
41.25 0.13260 0.16342 -0.27504 0.00259 -0.00704 41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880	40.25	0.15897	0.16379	-0.27613	0.00237	-0.00728
41.75 0.11932 0.16283 -0.27577 0.00269 -0.00677 42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28216 0.00450 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00456 -0.00871	40.75	0.14346	0.16517	-0.27489	0.00244	-0.00726
42.25 0.10514 0.16281 -0.27646 0.00273 -0.00656 42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00456 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851	41.25	0.13260	0.16342	-0.27504	0.00259	-0.00704
42.75 0.09329 0.16193 -0.27725 0.00288 -0.00671 43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 47.75 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.299210 0.00396 -0.00812	41.75	0.11932	0.16283	-0.27577	0.00269	-0.00677
43.25 0.08904 0.15789 -0.27778 0.00322 -0.00720 43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812	42.25	0.10514	0.16281	-0.27646	0.00273	-0.00656
43.75 0.08618 0.15416 -0.27786 0.00341 -0.00761 44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00448 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812	42.75	0.09329	0.16193	-0.27725	0.00288	-0.00671
44.25 0.09011 0.14512 -0.27731 0.00372 -0.00797 44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29418 0.00437 -0.00853	43.25	0.08904	0.15789	-0.27778	0.00322	-0.00720
44.75 0.08792 0.14149 -0.27722 0.00395 -0.00820 45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00470 -0.00882	43.75	0.08618	0.15416	-0.27786	0.00341	-0.00761
45.24 0.07934 0.14320 -0.27790 0.00408 -0.00832 45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.299697 0.00481 -0.00878	44.25	0.09011	0.14512	-0.27731	0.00372	-0.00797
45.75 0.06696 0.14993 -0.27936 0.00415 -0.00831 46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864	44.75	0.08792	0.14149	-0.27722	0.00395	-0.00820
46.25 0.05503 0.15266 -0.28056 0.00432 -0.00863 46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874	45.24	0.07934	0.14320	-0.27790	0.00408	-0.00832
46.75 0.05354 0.14902 -0.28216 0.00450 -0.00880 47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874	45.75	0.06696	0.14993	-0.27936	0.00415	-0.00831
47.25 0.04956 0.14855 -0.28429 0.00456 -0.00880 47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00461 -0.00911	46.25	0.05503	0.15266	-0.28056	0.00432	-0.00863
47.75 0.04369 0.14762 -0.28621 0.00454 -0.00871 48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00461 -0.00911 53.75 -0.02282 0.15231 -0.30329 0.00461 -0.00919	46.75	0.05354	0.14902	-0.28216	0.00450	-0.00880
48.25 0.03285 0.15147 -0.28872 0.00448 -0.00851 48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30317 0.00455 -0.00919 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	47.25	0.04956	0.14855	-0.28429	0.00456	-0.00880
48.75 0.01814 0.15984 -0.29082 0.00426 -0.00829 49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	47.75	0.04369	0.14762	-0.28621	0.00454	-0.00871
49.25 0.00891 0.16560 -0.29210 0.00396 -0.00812 49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	48.25	0.03285	0.15147	-0.28872	0.00448	-0.00851
49.75 0.00957 0.16088 -0.29299 0.00401 -0.00825 50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	48.75	0.01814	0.15984	-0.29082	0.00426	-0.00829
50.25 0.01784 0.15088 -0.29418 0.00437 -0.00853 50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	49.25	0.00891	0.16560	-0.29210	0.00396	-0.00812
50.75 0.02025 0.14459 -0.29594 0.00470 -0.00882 51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	49.75	0.00957	0.16088	-0.29299	0.00401	-0.00825
51.25 0.01035 0.14499 -0.29697 0.00481 -0.00878 51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	50.25	0.01784	0.15088	-0.29418	0.00437	-0.00853
51.75 -0.00037 0.14779 -0.29980 0.00493 -0.00864 52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	50.75	0.02025	0.14459	-0.29594	0.00470	-0.00882
52.25 -0.01091 0.15158 -0.30286 0.00495 -0.00874 52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	51.25	0.01035	0.14499	-0.29697	0.00481	-0.00878
52.75 -0.02092 0.15379 -0.30357 0.00482 -0.00895 53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	51.75	-0.00037	0.14779	-0.29980	0.00493	-0.00864
53.25 -0.02282 0.15231 -0.30329 0.00461 -0.00911 53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	52.25	-0.01091	0.15158	-0.30286	0.00495	-0.00874
53.75 -0.02490 0.14997 -0.30317 0.00455 -0.00919	52.75	-0.02092	0.15379	-0.30357	0.00482	-0.00895
	53.25	-0.02282	0.15231	-0.30329	0.00461	-0.00911
54.25 -0.01972 0.14239 -0.30301 0.00456 -0.00937	53.75	-0.02490	0.14997	-0.30317	0.00455	-0.00919
	54.25	-0.01972	0.14239	-0.30301	0.00456	-0.00937

54.75	-0.02216	0.13768	-0.30396	0.00463	-0.00925
55.25	-0.03092	0.13722	-0.30620	0.00473	-0.00912
55.75	-0.04111	0.13819	-0.30846	0.00474	-0.00906
56.25	-0.05515	0.14080	-0.31032	0.00476	-0.00897
56.75	-0.06883	0.14355	-0.31010	0.00466	-0.00887
57.25	-0.08824	0.15020	-0.31112	0.00475	-0.00884
57.75	-0.09936	0.15312	-0.31162	0.00481	-0.00892
58.25	-0.10592	0.15377	-0.31222	0.00478	-0.00924
58.75	-0.09759	0.14726	-0.31241	0.00445	-0.00954
59.25	-0.09159	0.14026	-0.31365	0.00416	-0.00967
59.75	-0.09327	0.13809	-0.31448	0.00382	-0.00953
60.25	-0.09977	0.13756	-0.31581	0.00375	-0.00941
60.75	-0.10871	0.13918	-0.31822	0.00386	-0.00934
61.25	-0.11395	0.13902	-0.31842	0.00377	-0.00939
61.75	-0.12307	0.13920	-0.31642	0.00367	-0.00954
62.25	-0.13104	0.13981	-0.31427	0.00356	-0.00969
62.75	-0.14470	0.14318	-0.31259	0.00345	-0.00968
63.25	-0.15510	0.14419	-0.31200	0.00339	-0.00940
63.75	-0.16382	0.14425	-0.31255	0.00347	-0.00919
64.25	-0.16840	0.13966	-0.31305	0.00345	-0.00925
64.75	-0.17061	0.13367	-0.31460	0.00348	-0.00930
65.25	-0.17711	0.13086	-0.31436	0.00347	-0.00925
65.75	-0.18605	0.12856	-0.31413	0.00361	-0.00918
66.25	-0.20813	0.13557	-0.31468	0.00353	-0.00890
66.75	-0.23002	0.14509	-0.31536	0.00345	-0.00867
67.25	-0.24386	0.14918	-0.31645	0.00348	-0.00857
67.75	-0.24971	0.14970	-0.31785	0.00331	-0.00866
68.25	-0.25304	0.14519	-0.31924	0.00338	-0.00896
68.75	-0.25759	0.14225	-0.32024	0.00334	-0.00915
69.25	-0.26313	0.13917	-0.32133	0.00338	-0.00944
69.75	-0.26978	0.13751	-0.32219	0.00325	-0.00952
70.25	-0.27716	0.13733	-0.32219	0.00315	-0.00953
70.75	-0.28538	0.13891	-0.32218	0.00305	-0.00944
71.25	-0.28666	0.13552	-0.32270	0.00298	-0.00928
71.75	-0.28832	0.13113	-0.32355	0.00303	-0.00908
72.25	-0.29690	0.13014	-0.32567	0.00315	-0.00897
72.75	-0.30588	0.13061	-0.32693	0.00316	-0.00887

-0.31000	0.12560	-0.32839	0.00329	-0.00887
-0.32017	0.12661	-0.32864	0.00322	-0.00868
-0.32840	0.12618	-0.32919	0.00328	-0.00859
-0.33954	0.12758	-0.33107	0.00326	-0.00831
-0.35865	0.13527	-0.33256	0.00310	-0.00802
-0.37082	0.13704	-0.33437	0.00325	-0.00790
-0.38340	0.13950	-0.33581	0.00339	-0.00785
-0.40071	0.14541	-0.33583	0.00334	-0.00747
-0.40649	0.14238	-0.33426	0.00331	-0.00688
-0.41621	0.14141	-0.33393	0.00327	-0.00623
-0.42885	0.14299	-0.33361	0.00309	-0.00529
-0.44728	0.14828	-0.33442	0.00289	-0.00427
-0.46280	0.15046	-0.33637	0.00298	-0.00344
-0.47380	0.15037	-0.33816	0.00318	-0.00282
-0.48364	0.14976	-0.33929	0.00317	-0.00228
-0.49067	0.14937	-0.33971	0.00306	-0.00153
-0.49723	0.14785	-0.34063	0.00294	-0.00096
-0.50462	0.14796	-0.33917	0.00269	-0.00056
-0.51426	0.14852	-0.33870	0.00248	-0.00022
-0.52370	0.14802	-0.33789	0.00241	-0.00006
-0.53475	0.14539	-0.33751	0.00261	-0.00005
-0.55150	0.14900	-0.33843	0.00290	0.00016
-0.55469	0.14747	-0.33857	0.00273	0.00061
-0.55787	0.14760	-0.33810	0.00228	0.00115
-0.57318	0.15286	-0.33915	0.00220	0.00164
-0.58841	0.15666	-0.33893	0.00212	0.00211
-0.59906	0.15818	-0.33716	0.00193	0.00243
-0.61531	0.16172	-0.33800	0.00221	0.00285
-0.61600	0.15858	-0.33796	0.00208	0.00339
-0.62063	0.15726	-0.33659	0.00167	0.00400
-0.64489	0.16320	-0.33599	0.00200	0.00399
-0.63510	0.15514	-0.33270	0.00175	0.00455
-0.63367	0.14470	-0.33421	0.00206	0.00489
-0.64988	0.15437	-0.33346	0.00211	0.00587
	-0.32017 -0.32840 -0.33954 -0.33954 -0.35865 -0.37082 -0.38340 -0.40071 -0.40649 -0.41621 -0.42885 -0.44728 -0.46280 -0.47380 -0.49067 -0.49723 -0.50462 -0.51426 -0.52370 -0.53475 -0.55150 -0.55469 -0.55787 -0.57318 -0.57318 -0.61600 -0.62063 -0.62063 -0.64489 -0.63367	-0.32017 0.12661 -0.32840 0.12618 -0.33954 0.12758 -0.35865 0.13527 -0.37082 0.13704 -0.38340 0.13950 -0.40071 0.14541 -0.40649 0.14238 -0.41621 0.14141 -0.42885 0.14299 -0.44728 0.14828 -0.46280 0.15037 -0.48364 0.14976 -0.49067 0.14785 -0.50462 0.14785 -0.51426 0.14852 -0.52370 0.14802 -0.53475 0.14539 -0.55469 0.14747 -0.55787 0.14760 -0.57318 0.15286 -0.58841 0.15666 -0.59906 0.15818 -0.61600 0.15858 -0.62063 0.15726 -0.64489 0.16320 -0.63367 0.14470	-0.32017 0.12661 -0.32864 -0.32840 0.12618 -0.32919 -0.33954 0.12758 -0.33107 -0.35865 0.13527 -0.33256 -0.37082 0.13704 -0.33437 -0.38340 0.13950 -0.33581 -0.40071 0.14541 -0.33583 -0.40649 0.14238 -0.33426 -0.41621 0.14141 -0.33393 -0.42885 0.14299 -0.33361 -0.42885 0.14299 -0.33442 -0.46280 0.15046 -0.33637 -0.47380 0.15037 -0.33816 -0.49067 0.14937 -0.33929 -0.49067 0.14937 -0.33971 -0.50462 0.14796 -0.33971 -0.51426 0.14852 -0.33870 -0.52370 0.14802 -0.33751 -0.55469 0.14747 -0.33810 -0.57318 0.15286 -0.33915 -0.58441 0.15666 -0.33893 -0.5990	-0.32017 0.12661 -0.32864 0.00322 -0.32840 0.12618 -0.32919 0.00328 -0.33954 0.12758 -0.33107 0.00326 -0.35865 0.13527 -0.33256 0.00310 -0.37082 0.13704 -0.33437 0.00325 -0.38340 0.13950 -0.33581 0.00339 -0.40071 0.14541 -0.33583 0.00334 -0.40649 0.14238 -0.33426 0.00331 -0.41621 0.14141 -0.33393 0.00327 -0.42885 0.14299 -0.33361 0.00309 -0.44728 0.14828 -0.33442 0.00289 -0.46280 0.15046 -0.33637 0.00298 -0.47380 0.15037 -0.33816 0.00318 -0.49067 0.14937 -0.33971 0.00306 -0.49723 0.14785 -0.34063 0.00294 -0.51426 0.14852 -0.33870 0.00248 -0.52370 0.14802 -0.33789 0.00241

Table 38. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	90°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.24	0.01330	0.00874	-0.00035	-0.00007	0.00020
0.74	0.01384	0.00869	0.00001	-0.00010	0.00019
1.25	0.01251	0.00937	0.00019	-0.00012	0.00017
1.74	0.01372	0.00868	0.00026	-0.00009	0.00011
2.25	0.01398	0.00812	0.00023	-0.00009	0.00011
2.74	0.01384	0.00864	0.00017	-0.00009	0.00012
3.25	0.01403	0.00852	0.00003	-0.00005	0.00010
3.75	0.01239	0.00945	0.00009	-0.00009	0.00011
4.25	0.01406	0.00827	0.00013	-0.00009	0.00007
4.74	0.01452	0.00809	0.00012	-0.00008	0.00010
5.25	0.01422	0.00833	0.00005	-0.00008	0.00005
5.75	0.01301	0.00869	0.00002	-0.00008	0.00005
6.24	0.01333	0.00896	-0.00005	-0.00008	0.00007
6.75	0.01319	0.00903	-0.00015	-0.00010	0.00006
7.25	0.01371	0.00855	-0.00017	-0.00008	0.00004
7.74	0.01329	0.00896	-0.00017	-0.00007	0.00005
8.25	0.01368	0.00873	-0.00031	-0.00007	0.00003
8.75	0.01491	0.00798	-0.00023	-0.00006	0.00000
9.25	0.01412	0.00859	-0.00029	-0.00004	0.00001
9.74	0.01420	0.00788	-0.00041	-0.00003	-0.00001
10.25	0.01384	0.00815	-0.00039	-0.00004	-0.00001
10.75	0.01332	0.00876	-0.00042	-0.00004	-0.00001
11.25	0.01500	0.00857	-0.00046	-0.00002	-0.00005
11.75	0.01406	0.00886	-0.00045	-0.00003	-0.00003
12.25	0.01246	0.00889	-0.00053	-0.00003	-0.00003
12.75	0.01294	0.00886	-0.00058	-0.00006	-0.00003
13.25	0.01387	0.00880	-0.00048	-0.00007	-0.00002
13.75	0.01487	0.00793	-0.00051	-0.00003	-0.00005
14.25	0.01404	0.00808	-0.00061	-0.00002	-0.00005
14.75	0.01369	0.00860	-0.00066	-0.00004	-0.00005
15.25	0.01374	0.00890	-0.00061	-0.00005	-0.00006
15.75	0.01334	0.00894	-0.00070	-0.00003	-0.00002
16.25	0.01312	0.00898	-0.00083	-0.00001	-0.00003
16.75	0.01315	0.00908	-0.00083	-0.00004	-0.00005
17.25	0.01402	0.00836	-0.00065	-0.00006	-0.00007

17.75 0.01387 0.00813 -0.00069 -0.00001 -0.00010 18.25 0.01382 0.00823 -0.00092 0.00003 -0.00008 18.75 0.01299 0.00902 -0.00103 0.00002 -0.00001 19.75 0.01342 0.00842 -0.00081 -0.00001 -0.00001 20.25 0.01344 0.00875 -0.00098 -0.00002 -0.00004 20.75 0.01391 0.00833 -0.0011 -0.00002 -0.0001 21.25 0.01384 0.00841 -0.00101 -0.00002 -0.00010 21.75 0.01354 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 24.25 0.01263 0.00888 -0.00124 0.00002 -0.00011						
18.75 0.01299 0.00902 -0.00103 0.00002 -0.00001 19.25 0.01266 0.00902 -0.00091 -0.00001 -0.00010 19.75 0.01342 0.00842 -0.00081 -0.00001 -0.00008 20.25 0.01344 0.00875 -0.00098 -0.00002 -0.00004 20.75 0.01384 0.00833 -0.00101 -0.00002 -0.00010 21.25 0.01384 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.25 0.011299 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00012 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008	17.75	0.01387	0.00813	-0.00069	-0.00001	-0.00010
19.25 0.01266 0.00902 -0.00091 -0.00001 -0.00010 19.75 0.01342 0.00842 -0.00081 -0.00001 -0.00008 20.25 0.01344 0.00875 -0.00098 -0.00002 -0.00004 20.75 0.01391 0.00833 -0.00113 0.00000 -0.00008 21.25 0.01384 0.00832 -0.00008 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00003 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008	18.25	0.01382	0.00823	-0.00092	0.00003	-0.00008
19.75 0.01342 0.00842 -0.00081 -0.00001 -0.00008 20.25 0.01344 0.00875 -0.00098 -0.00002 -0.00004 20.75 0.01391 0.00833 -0.00113 0.00000 -0.00010 21.25 0.01384 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00010 23.25 0.01225 0.00870 -0.00120 0.00002 -0.00011 24.25 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00008 25.74 0.01302 0.00803 -0.00135 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00002 -0.00008	18.75	0.01299	0.00902	-0.00103	0.00002	-0.00007
20.25 0.01344 0.00875 -0.00098 -0.00002 -0.00004 20.75 0.01391 0.00833 -0.00113 0.00000 -0.00008 21.25 0.01384 0.00841 -0.00101 -0.00002 -0.00010 21.75 0.01354 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00107 0.00001 -0.00004 22.75 0.01199 0.00896 -0.00107 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00008 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006	19.25	0.01266	0.00902	-0.00091	-0.00001	-0.00010
20.75 0.01391 0.00833 -0.00113 0.00000 -0.00008 21.25 0.01384 0.00841 -0.00101 -0.00002 -0.00010 21.75 0.01354 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00127 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00002 -0.00008 26.75 0.01124 0.00953 -0.00148 0.00002 -0.00011	19.75	0.01342	0.00842	-0.00081	-0.00001	-0.00008
21.25 0.01384 0.00841 -0.00101 -0.00002 -0.00010 21.75 0.01354 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00008 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00008 26.75 0.01124 0.00953 -0.00148 0.00002 -0.00011 27.25 0.01211 0.00887 -0.00148 0.00003 -0.00011	20.25	0.01344	0.00875	-0.00098	-0.00002	-0.00004
21.75 0.01354 0.00832 -0.00088 -0.00004 -0.00006 22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00002 -0.00011 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00001 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00008 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00008 26.75 0.01124 0.00953 -0.00148 0.00002 -0.00011 27.25 0.01211 0.00887 -0.00148 0.00003 -0.00011	20.75	0.01391	0.00833	-0.00113	0.00000	-0.00008
22.25 0.01278 0.00860 -0.00097 -0.00004 -0.00003 22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00001 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 28.75 0.01269 0.00829 -0.00157 0.00004 -0.00012	21.25	0.01384	0.00841	-0.00101	-0.00002	-0.00010
22.75 0.01199 0.00896 -0.00107 0.00001 -0.00004 23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00001 24.25 0.01263 0.00893 -0.00127 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012	21.75	0.01354	0.00832	-0.00088	-0.00004	-0.00006
23.25 0.01225 0.00870 -0.00120 0.00003 -0.00010 23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.0012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012	22.25	0.01278	0.00860	-0.00097	-0.00004	-0.00003
23.75 0.01242 0.00888 -0.00126 0.00002 -0.00011 24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00012 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013	22.75	0.01199	0.00896	-0.00107	0.00001	-0.00004
24.25 0.01263 0.00893 -0.00124 0.00002 -0.00008 24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00012 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00176 0.00006 -0.00012	23.25	0.01225	0.00870	-0.00120	0.00003	-0.00010
24.74 0.01218 0.00863 -0.00127 0.00002 -0.00008 25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00019 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00176 0.00006 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00011	23.75	0.01242	0.00888	-0.00126	0.00002	-0.00011
25.24 0.01201 0.00840 -0.00135 0.00002 -0.00009 25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00011 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00006 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00006 -0.00011	24.25	0.01263	0.00893	-0.00124	0.00002	-0.00008
25.74 0.01302 0.00803 -0.00137 0.00002 -0.00008 26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00019 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00832 -0.00178 0.00006 -0.00011 31.25 0.01267 0.00803 -0.00182 0.00006 -0.00011	24.74	0.01218	0.00863	-0.00127	0.00002	-0.00008
26.24 0.01253 0.00879 -0.00135 0.00000 -0.00006 26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00182 0.00006 -0.00011 31.75 0.01242 0.00803 -0.00184 0.00006 -0.00013	25.24	0.01201	0.00840	-0.00135	0.00002	-0.00009
26.75 0.01124 0.00953 -0.00143 0.00000 -0.00009 27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00006 -0.00013 32.75 0.01255 0.00773 -0.00184 0.00004 -0.00013	25.74	0.01302	0.00803	-0.00137	0.00002	-0.00008
27.25 0.01211 0.00887 -0.00148 0.00002 -0.00011 27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00006 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00004 -0.00013	26.24	0.01253	0.00879	-0.00135	0.00000	-0.00006
27.75 0.01322 0.00817 -0.00156 0.00003 -0.00011 28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00182 0.00006 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00004 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010	26.75	0.01124	0.00953	-0.00143	0.00000	-0.00009
28.25 0.01269 0.00829 -0.00157 0.00004 -0.00012 28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.75 0.01153 0.00856 -0.00176 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008	27.25	0.01211	0.00887	-0.00148	0.00002	-0.00011
28.75 0.01251 0.00870 -0.00149 0.00002 -0.00012 29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00195 0.00007 -0.00012	27.75	0.01322	0.00817	-0.00156	0.00003	-0.00011
29.25 0.01213 0.00864 -0.00155 0.00002 -0.00013 29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01234 0.00807 -0.00185 0.00008 -0.00019	28.25	0.01269	0.00829	-0.00157	0.00004	-0.00012
29.75 0.01126 0.00839 -0.00170 0.00004 -0.00012 30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	28.75	0.01251	0.00870	-0.00149	0.00002	-0.00012
30.25 0.01196 0.00812 -0.00176 0.00006 -0.00012 30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00185 0.00008 -0.00019 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	29.25	0.01213	0.00864	-0.00155	0.00002	-0.00013
30.75 0.01294 0.00849 -0.00173 0.00004 -0.00011 31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	29.75	0.01126	0.00839	-0.00170	0.00004	-0.00012
31.25 0.01304 0.00832 -0.00178 0.00005 -0.00010 31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00185 0.00008 -0.00019 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	30.25	0.01196	0.00812	-0.00176	0.00006	-0.00012
31.75 0.01242 0.00803 -0.00182 0.00006 -0.00011 32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	30.75	0.01294	0.00849	-0.00173	0.00004	-0.00011
32.25 0.01267 0.00776 -0.00184 0.00004 -0.00013 32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	31.25	0.01304	0.00832	-0.00178	0.00005	-0.00010
32.75 0.01255 0.00773 -0.00181 0.00005 -0.00013 33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	31.75	0.01242	0.00803	-0.00182	0.00006	-0.00011
33.25 0.01153 0.00856 -0.00176 0.00004 -0.00010 33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	32.25	0.01267	0.00776	-0.00184	0.00004	-0.00013
33.75 0.01100 0.00894 -0.00188 0.00004 -0.00008 34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	32.75	0.01255	0.00773	-0.00181	0.00005	-0.00013
34.25 0.01120 0.00839 -0.00197 0.00007 -0.00008 34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	33.25	0.01153	0.00856	-0.00176	0.00004	-0.00010
34.75 0.01191 0.00819 -0.00195 0.00007 -0.00012 35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	33.75	0.01100	0.00894	-0.00188	0.00004	-0.00008
35.25 0.01234 0.00807 -0.00185 0.00008 -0.00019	34.25	0.01120	0.00839	-0.00197	0.00007	-0.00008
	34.75	0.01191	0.00819	-0.00195	0.00007	-0.00012
35.75 0.01150 0.00846 -0.00182 0.00007 -0.00016	35.25	0.01234	0.00807	-0.00185	0.00008	-0.00019
0.00010	35.75	0.01150	0.00846	-0.00182	0.00007	-0.00016

36.25 0.01093 0.00862 -0.00197 0.00006 -0.00013 36.75 0.01091 0.00878 -0.00188 0.00002 -0.00010 37.25 0.01133 0.00863 -0.00182 0.00001 -0.00010 37.75 0.01116 0.00876 -0.00200 0.00006 -0.00013 38.25 0.01084 0.00887 -0.00193 0.00003 -0.00010 39.24 0.01074 0.00796 -0.00203 0.00008 -0.00010 39.75 0.01127 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00185 0.00002 -0.00011 42.25 0.01019 0.00837 -0.00189 0.00004 -0.00013						
37.25 0.01133 0.00863 -0.00182 0.00001 -0.00010 37.75 0.01116 0.00876 -0.00200 0.00006 -0.00014 38.25 0.01084 0.00887 -0.00193 0.00003 -0.00010 38.75 0.01059 0.00829 -0.00183 0.00008 -0.00010 39.24 0.01074 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00855 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00187 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00002 -0.00011 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.0074 -0.00187 0.00006 -0.00011	36.25	0.01093	0.00862	-0.00197	0.00006	-0.00013
37.75 0.01116 0.00876 -0.00200 0.00006 -0.00014 38.25 0.01084 0.00887 -0.00193 0.00003 -0.00010 38.75 0.01059 0.00829 -0.00183 0.00008 -0.00010 39.24 0.01074 0.00796 -0.00203 0.00008 -0.00010 39.75 0.01127 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00855 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00774 -0.00187 0.00006 -0.00011	36.75	0.01091	0.00878	-0.00188	0.00002	-0.00010
38.25 0.01084 0.00887 -0.00193 0.00003 -0.00010 38.75 0.01059 0.00829 -0.00183 0.00003 -0.00010 39.24 0.01074 0.00796 -0.00203 0.00008 -0.00010 39.75 0.01127 0.00806 -0.00201 0.00008 -0.00011 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00855 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00005 -0.00010	37.25	0.01133	0.00863	-0.00182	0.00001	-0.00010
38.75 0.01059 0.00829 -0.00183 0.00003 -0.00010 39.24 0.01074 0.00796 -0.00203 0.00008 -0.00010 39.75 0.01127 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010	37.75	0.01116	0.00876	-0.00200	0.00006	-0.00014
39.24 0.01074 0.00796 -0.00203 0.00008 -0.00010 39.75 0.01127 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.0013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013	38.25	0.01084	0.00887	-0.00193	0.00003	-0.00013
39.75 0.01127 0.00806 -0.00201 0.00008 -0.00013 40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00923 0.00846 -0.00190 0.00006 -0.00102 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00013	38.75	0.01059	0.00829	-0.00183	0.00003	-0.00010
40.26 0.01039 0.00850 -0.00187 0.00003 -0.00011 40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.0010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010	39.24	0.01074	0.00796	-0.00203	0.00008	-0.00010
40.76 0.01008 0.00857 -0.00189 0.00004 -0.00012 41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.0010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00010 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013	39.75	0.01127	0.00806	-0.00201	0.00008	-0.00013
41.25 0.01058 0.00895 -0.00187 0.00002 -0.00011 41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00005 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.75 0.00831 0.00848 -0.00191 0.00006 -0.00013 47.75 0.00896 0.00841 -0.00196 0.00006 -0.00013	40.26	0.01039	0.00850	-0.00187	0.00003	-0.00011
41.75 0.01098 0.00855 -0.00185 0.00002 -0.00011 42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00012 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00013 45.75 0.00831 0.00848 -0.00191 0.00006 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00013 47.25 0.00875 0.00841 -0.00192 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012	40.76	0.01008	0.00857	-0.00189	0.00004	-0.00012
42.25 0.01012 0.00837 -0.00189 0.00004 -0.00013 42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00013 47.25 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00006 -0.00011 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011	41.25	0.01058	0.00895	-0.00187	0.00002	-0.00011
42.75 0.00954 0.00843 -0.00189 0.00005 -0.00013 43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00013 47.25 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00215 0.00008 -0.00011 48.75 0.00713 0.00877 -0.00214 0.00008 -0.00008	41.75	0.01098	0.00855	-0.00185	0.00002	-0.00011
43.25 0.01019 0.00792 -0.00187 0.00006 -0.00011 43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00192 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008	42.25	0.01012	0.00837	-0.00189	0.00004	-0.00013
43.75 0.01056 0.00774 -0.00181 0.00004 -0.00010 44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00249 0.00007 -0.00008	42.75	0.00954	0.00843	-0.00189	0.00005	-0.00013
44.25 0.00971 0.00837 -0.00185 0.00005 -0.00010 44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 49.25 0.0071 0.00844 -0.00213 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00006 -0.00011	43.25	0.01019	0.00792	-0.00187	0.00006	-0.00011
44.75 0.00923 0.00846 -0.00190 0.00006 -0.00012 45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.0071 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	43.75	0.01056	0.00774	-0.00181	0.00004	-0.00010
45.25 0.00891 0.00860 -0.00183 0.00004 -0.00013 45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.0071 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	44.25	0.00971	0.00837	-0.00185	0.00005	-0.00010
45.75 0.00900 0.00831 -0.00176 0.00004 -0.00010 46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.00711 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00006 -0.00011 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	44.75	0.00923	0.00846	-0.00190	0.00006	-0.00012
46.25 0.00831 0.00848 -0.00191 0.00006 -0.00009 46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.0071 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00006 -0.00011 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	45.25	0.00891	0.00860	-0.00183	0.00004	-0.00013
46.75 0.00817 0.00845 -0.00192 0.00005 -0.00013 47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.00771 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	45.75	0.00900	0.00831	-0.00176	0.00004	-0.00010
47.25 0.00875 0.00841 -0.00196 0.00006 -0.00013 47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.00771 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	46.25	0.00831	0.00848	-0.00191	0.00006	-0.00009
47.75 0.00896 0.00850 -0.00215 0.00008 -0.00012 48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.00771 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	46.75	0.00817	0.00845	-0.00192	0.00005	-0.00013
48.25 0.00879 0.00830 -0.00219 0.00007 -0.00011 48.75 0.00771 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	47.25	0.00875	0.00841	-0.00196	0.00006	-0.00013
48.75 0.00771 0.00844 -0.00213 0.00008 -0.00010 49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	47.75	0.00896	0.00850	-0.00215	0.00008	-0.00012
49.25 0.00713 0.00877 -0.00214 0.00008 -0.00008 49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	48.25	0.00879	0.00830	-0.00219	0.00007	-0.00011
49.75 0.00671 0.00918 -0.00240 0.00009 -0.00009 50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	48.75	0.00771	0.00844	-0.00213	0.00008	-0.00010
50.25 0.00637 0.00938 -0.00249 0.00007 -0.00008 50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	49.25	0.00713	0.00877	-0.00214	0.00008	-0.00008
50.75 0.00756 0.00859 -0.00246 0.00006 -0.00011	49.75	0.00671	0.00918	-0.00240	0.00009	-0.00009
	50.25	0.00637	0.00938	-0.00249	0.00007	-0.00008
	50.75	0.00756	0.00859	-0.00246	0.00006	-0.00011
51.25 0.00868 0.00799 -0.00244 0.00008 -0.00013	51.25	0.00868	0.00799	-0.00244	0.00008	-0.00013
51.75 0.00823 0.00805 -0.00236 0.00010 -0.00011	51.75	0.00823	0.00805	-0.00236	0.00010	-0.00011
52.25 0.00719 0.00848 -0.00252 0.00010 -0.00009	52.25	0.00719	0.00848	-0.00252	0.00010	-0.00009
52.75 0.00653 0.00884 -0.00271 0.00011 -0.00011	52.75	0.00653	0.00884	-0.00271	0.00011	-0.00011
53.25 0.00623 0.00908 -0.00264 0.00010 -0.00011	53.25	0.00623	0.00908	-0.00264	0.00010	-0.00011
53.75 0.00611 0.00893 -0.00256 0.00009 -0.00011	53.75	0.00611	0.00893	-0.00256	0.00009	-0.00011
54.25 0.00643 0.00854 -0.00266 0.00011 -0.00010	54.25	0.00643	0.00854	-0.00266	0.00011	-0.00010

54.75 0.00675 0.00848 -0.00278 0.00012 -0.00009 55.25 0.00562 0.00909 -0.00279 0.00011 -0.00007 55.75 0.00547 0.00852 -0.00274 0.00010 -0.00007 56.25 0.00613 0.00882 -0.00274 0.00010 -0.00007 56.75 0.00553 0.00873 -0.00282 0.00011 -0.00005 57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00886 -0.00275 0.00010 -0.00009 58.75 0.00537 0.00886 -0.00264 0.00009 -0.00007 59.25 0.00537 0.00886 -0.00264 0.00008 -0.00009 59.75 0.00445 0.00950 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00006 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009						
55.75 0.00547 0.00913 -0.00275 0.00010 -0.00007 56.25 0.00674 0.00852 -0.00274 0.00010 -0.00010 56.75 0.00613 0.00882 -0.00272 0.00009 -0.00007 57.25 0.00553 0.00887 -0.00294 0.00013 -0.00010 57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00886 -0.00275 0.00010 -0.00009 58.75 0.00537 0.00886 -0.00264 0.00009 -0.00009 59.75 0.00445 0.00950 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00006 60.75 0.00467 0.00842 -0.00266 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00266 0.00010 -0.00001	54.75	0.00675	0.00848	-0.00278	0.00012	-0.00009
56.25 0.00674 0.00852 -0.00274 0.00010 -0.00010 56.75 0.00613 0.00882 -0.00272 0.00009 -0.00007 57.25 0.00553 0.00873 -0.00282 0.00011 -0.00005 57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00886 -0.00275 0.00010 -0.00009 58.75 0.00537 0.00886 -0.00270 0.00008 -0.00009 59.25 0.00537 0.00897 -0.00276 0.00006 -0.00009 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00006 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00261 0.00008 -0.00009 62.25 0.00350 0.00997 -0.00266 0.0010 -0.00011	55.25	0.00562	0.00909	-0.00279	0.00011	-0.00007
56.75 0.00613 0.00882 -0.00272 0.00009 -0.00007 57.25 0.00553 0.00873 -0.00282 0.00011 -0.00005 57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00886 -0.00264 0.00009 -0.00007 58.75 0.00537 0.00897 -0.00270 0.00008 -0.00009 59.25 0.00537 0.00897 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00266 0.00008 -0.00009 62.25 0.00395 0.00893 -0.00266 0.00010 -0.00009 62.25 0.00350 0.00907 -0.00263 0.00008 -0.00007	55.75	0.00547	0.00913	-0.00275	0.00010	-0.00007
57.25 0.00553 0.00873 -0.00282 0.00011 -0.00005 57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00886 -0.00275 0.00010 -0.00009 58.75 0.00551 0.00886 -0.00264 0.00009 -0.00007 59.25 0.00537 0.00897 -0.00270 0.00008 -0.00009 59.75 0.00445 0.00950 -0.00276 0.00006 -0.00005 60.25 0.00398 0.00927 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00350 0.00893 -0.00266 0.00008 -0.00009 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00009 62.25 0.00350 0.00907 -0.00266 0.00010 -0.00007 62.25 0.00349 0.00994 -0.00266 0.00010 -0.00001	56.25	0.00674	0.00852	-0.00274	0.00010	-0.00010
57.75 0.00506 0.00887 -0.00294 0.00013 -0.00010 58.25 0.00507 0.00896 -0.00275 0.00010 -0.00009 58.75 0.00551 0.00886 -0.00264 0.00009 -0.00007 59.25 0.00537 0.00897 -0.00270 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00271 0.00009 -0.00009 61.75 0.00357 0.00907 -0.00263 0.00008 -0.00009 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00932 -0.00262 0.00009 -0.00009	56.75	0.00613	0.00882	-0.00272	0.00009	-0.00007
58.25 0.00507 0.00896 -0.00275 0.00010 -0.00009 58.75 0.00551 0.00886 -0.00264 0.00009 -0.00007 59.25 0.00537 0.00897 -0.00270 0.00008 -0.00009 59.75 0.00445 0.00950 -0.00263 0.00006 -0.00005 60.25 0.00398 0.00927 -0.00266 0.00008 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00271 0.00009 -0.00007 62.25 0.00350 0.00907 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00246 0.00006 -0.00006	57.25	0.00553	0.00873	-0.00282	0.00011	-0.00005
58.75 0.00551 0.00886 -0.00264 0.00009 -0.00007 59.25 0.00537 0.00897 -0.00270 0.00008 -0.00009 59.75 0.00445 0.00950 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00261 0.00009 -0.00006 62.25 0.00350 0.00907 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00001 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00388 0.00885 -0.00246 0.00006 -0.00012	57.75	0.00506	0.00887	-0.00294	0.00013	-0.00010
59.25 0.00537 0.00897 -0.00270 0.00008 -0.00009 59.75 0.00445 0.00950 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00271 0.00009 -0.00006 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00001 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00388 0.00885 -0.00246 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00245 0.00006 -0.00006	58.25	0.00507	0.00896	-0.00275	0.00010	-0.00009
59.75 0.00445 0.00950 -0.00276 0.00006 -0.00006 60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00263 0.00008 -0.00007 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00001 63.25 0.00349 0.00998 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00008 64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00267 0.00893 -0.00242 0.00007 -0.00008	58.75	0.00551	0.00886	-0.00264	0.00009	-0.00007
60.25 0.00398 0.00927 -0.00263 0.00006 -0.00005 60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00263 0.00008 -0.00007 62.25 0.00395 0.00893 -0.00266 0.00010 -0.00007 62.75 0.00350 0.00997 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00998 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00008 64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00267 0.00893 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00830 -0.00243 0.00005 -0.00010	59.25	0.00537	0.00897	-0.00270	0.00008	-0.00009
60.75 0.00467 0.00842 -0.00256 0.00008 -0.00009 61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00271 0.00009 -0.00006 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00245 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00245 0.00006 -0.00012 65.25 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011	59.75	0.00445	0.00950	-0.00276	0.00006	-0.00006
61.25 0.00366 0.00893 -0.00266 0.00008 -0.00009 61.75 0.00357 0.00907 -0.00271 0.00009 -0.00006 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00245 0.00006 -0.00012 65.25 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007	60.25	0.00398	0.00927	-0.00263	0.00006	-0.00005
61.75 0.00357 0.00907 -0.00271 0.00009 -0.00006 62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00001 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00388 0.00822 -0.00246 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00245 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009	60.75	0.00467	0.00842	-0.00256	0.00008	-0.00009
62.25 0.00395 0.00893 -0.00263 0.00008 -0.00007 62.75 0.00350 0.00907 -0.00266 0.00010 -0.00001 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012	61.25	0.00366	0.00893	-0.00266	0.00008	-0.00009
62.75 0.00350 0.00907 -0.00266 0.00010 -0.00011 63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00245 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00010 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00195 0.00889 -0.00262 0.00011 -0.00001	61.75	0.00357	0.00907	-0.00271	0.00009	-0.00006
63.25 0.00349 0.00908 -0.00271 0.00009 -0.00009 63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00008 64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00195 0.00889 -0.00262 0.00011 -0.00001	62.25	0.00395	0.00893	-0.00263	0.00008	-0.00007
63.75 0.00291 0.00932 -0.00262 0.00009 -0.00005 64.25 0.00338 0.00922 -0.00246 0.00006 -0.00008 64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00001 69.25 0.00195 0.00889 -0.00262 0.00010 -0.00009	62.75	0.00350	0.00907	-0.00266	0.00010	-0.00011
64.25 0.00338 0.00922 -0.00246 0.00006 -0.00008 64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00189 0.00889 -0.00254 0.00007 -0.00008	63.25	0.00349	0.00908	-0.00271	0.00009	-0.00009
64.75 0.00388 0.00885 -0.00245 0.00006 -0.00012 65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00006	63.75	0.00291	0.00932	-0.00262	0.00009	-0.00005
65.25 0.00296 0.00874 -0.00242 0.00007 -0.00008 65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00008 70.75 0.00093 0.00881 -0.00282 0.00009 -0.00006	64.25	0.00338	0.00922	-0.00246	0.00006	-0.00008
65.75 0.00267 0.00893 -0.00243 0.00005 -0.00004 66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00889 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00006 71.25 0.00037 0.00907 -0.00290 0.00009 -0.00006	64.75	0.00388	0.00885	-0.00245	0.00006	-0.00012
66.24 0.00397 0.00830 -0.00258 0.00007 -0.00010 66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	65.25	0.00296	0.00874	-0.00242	0.00007	-0.00008
66.74 0.00348 0.00820 -0.00249 0.00009 -0.00011 67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00006 71.25 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	65.75	0.00267	0.00893	-0.00243	0.00005	-0.00004
67.25 0.00251 0.00864 -0.00234 0.00009 -0.00007 67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00037 0.00907 -0.00290 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	66.24	0.00397	0.00830	-0.00258	0.00007	-0.00010
67.75 0.00205 0.00921 -0.00229 0.00008 -0.00009 68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00037 0.00907 -0.00290 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	66.74	0.00348	0.00820	-0.00249	0.00009	-0.00011
68.25 0.00252 0.00882 -0.00240 0.00010 -0.00012 68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	67.25	0.00251	0.00864	-0.00234	0.00009	-0.00007
68.75 0.00215 0.00870 -0.00262 0.00011 -0.00010 69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	67.75	0.00205	0.00921	-0.00229	0.00008	-0.00009
69.25 0.00195 0.00889 -0.00282 0.00010 -0.00008 69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	68.25	0.00252	0.00882	-0.00240	0.00010	-0.00012
69.75 0.00195 0.00885 -0.00266 0.00009 -0.00009 70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	68.75	0.00215	0.00870	-0.00262	0.00011	-0.00010
70.25 0.00189 0.00889 -0.00254 0.00007 -0.00008 70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	69.25	0.00195	0.00889	-0.00282	0.00010	-0.00008
70.75 0.00209 0.00860 -0.00271 0.00009 -0.00007 71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	69.75	0.00195	0.00885	-0.00266	0.00009	-0.00009
71.25 0.00093 0.00881 -0.00282 0.00009 -0.00006 71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	70.25	0.00189	0.00889	-0.00254	0.00007	-0.00008
71.75 0.00037 0.00907 -0.00290 0.00009 -0.00006 72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	70.75	0.00209	0.00860	-0.00271	0.00009	-0.00007
72.25 0.00014 0.00921 -0.00301 0.00011 -0.00008	71.25	0.00093	0.00881	-0.00282	0.00009	-0.00006
	71.75	0.00037	0.00907	-0.00290	0.00009	-0.00006
72.75 0.00051 0.00880 -0.00305 0.00011 -0.00010	72.25	0.00014	0.00921	-0.00301	0.00011	-0.00008
	72.75	0.00051	0.00880	-0.00305	0.00011	-0.00010

73.25	0.00109	0.00824	-0.00300	0.00013	-0.00012
73.75	0.00075	0.00857	-0.00298	0.00014	-0.00010
74.25	-0.00029	0.00942	-0.00310	0.00012	-0.00005
74.75	-0.00007	0.00934	-0.00315	0.00010	-0.00006
75.25	0.00030	0.00897	-0.00305	0.00009	-0.00007
75.75	0.00107	0.00830	-0.00316	0.00012	-0.00009
76.25	0.00150	0.00809	-0.00319	0.00012	-0.00011
76.75	-0.00075	0.00899	-0.00307	0.00011	-0.00004
77.25	-0.00222	0.00947	-0.00313	0.00011	0.00000
77.75	-0.00072	0.00867	-0.00329	0.00012	-0.00009
78.25	-0.00088	0.00856	-0.00317	0.00012	-0.00011
78.75	-0.00227	0.00909	-0.00314	0.00013	-0.00005
79.25	-0.00172	0.00881	-0.00328	0.00013	-0.00004
79.75	-0.00168	0.00872	-0.00320	0.00012	-0.00005
80.25	-0.00205	0.00861	-0.00319	0.00013	-0.00006
80.75	-0.00201	0.00860	-0.00327	0.00015	-0.00006
81.25	-0.00204	0.00886	-0.00313	0.00013	-0.00005
81.75	-0.00278	0.00917	-0.00328	0.00012	-0.00002
82.25	-0.00310	0.00915	-0.00340	0.00014	-0.00001
82.75	-0.00326	0.00910	-0.00310	0.00013	0.00001
83.25	-0.00271	0.00840	-0.00326	0.00014	-0.00002
83.75	-0.00284	0.00833	-0.00323	0.00016	-0.00003
84.26	-0.00404	0.00886	-0.00314	0.00014	0.00001
84.75	-0.00362	0.00894	-0.00302	0.00012	-0.00001
85.25	-0.00336	0.00859	-0.00313	0.00012	0.00000
85.75	-0.00402	0.00935	-0.00298	0.00012	0.00002
86.25	-0.00454	0.00911	-0.00304	0.00013	0.00003
86.76	-0.00497	0.00949	-0.00289	0.00007	0.00009
87.25	-0.00570	0.00966	-0.00295	0.00011	0.00006
87.76	-0.00497	0.00879	-0.00285	0.00012	0.00006
88.25	-0.00476	0.00843	-0.00276	0.00011	0.00007
88.75	-0.00437	0.00836	-0.00272	0.00010	0.00009
89.26	-0.00476	0.00858	-0.00273	0.00011	0.00011
89.74	-0.00550	0.00912	-0.00262	0.00008	0.00016

Table 39. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	0°	
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}
0.24	0.06507	0.00592	-0.00220	0.00036	0.00023
0.74	0.06460	0.00595	-0.00184	0.00034	0.00022
1.25	0.06409	0.00639	-0.00174	0.00033	0.00021
1.74	0.06288	0.00639	-0.00151	0.00032	0.00015
2.25	0.06456	0.00603	-0.00160	0.00033	0.00011
2.75	0.06423	0.00593	-0.00171	0.00035	0.00012
3.25	0.06471	0.00596	-0.00173	0.00037	0.00010
3.75	0.06460	0.00591	-0.00179	0.00034	0.00013
4.25	0.06565	0.00547	-0.00177	0.00036	0.00006
4.74	0.06471	0.00584	-0.00181	0.00036	0.00009
5.25	0.06509	0.00599	-0.00199	0.00037	0.00003
5.75	0.06454	0.00646	-0.00195	0.00038	0.00005
6.24	0.06470	0.00622	-0.00194	0.00037	0.00004
6.75	0.06630	0.00550	-0.00203	0.00036	0.00002
7.25	0.06464	0.00601	-0.00202	0.00036	0.00003
7.74	0.06465	0.00594	-0.00213	0.00038	0.00003
8.25	0.06483	0.00653	-0.00216	0.00036	0.00001
8.75	0.06641	0.00508	-0.00214	0.00041	-0.00002
9.25	0.06620	0.00530	-0.00226	0.00042	-0.00005
9.74	0.06564	0.00596	-0.00232	0.00043	-0.00003
10.25	0.06490	0.00616	-0.00238	0.00042	-0.00001
10.75	0.06427	0.00642	-0.00250	0.00040	-0.00005
11.25	0.06453	0.00652	-0.00236	0.00041	-0.00007
11.75	0.06606	0.00572	-0.00239	0.00044	-0.00006
12.25	0.06550	0.00570	-0.00255	0.00042	-0.00005
12.75	0.06389	0.00608	-0.00266	0.00044	-0.00010
13.25	0.06455	0.00577	-0.00261	0.00047	-0.00011
13.75	0.06525	0.00545	-0.00259	0.00044	-0.00005
14.25	0.06503	0.00526	-0.00277	0.00043	-0.00005
14.75	0.06533	0.00492	-0.00280	0.00044	-0.00013
15.25	0.06597	0.00467	-0.00271	0.00046	-0.00014
15.75	0.06453	0.00541	-0.00266	0.00045	-0.00008
16.25	0.06307	0.00614	-0.00279	0.00044	-0.00005
16.75	0.06319	0.00561	-0.00282	0.00044	-0.00009
17.25	0.06237	0.00590	-0.00277	0.00045	-0.00014

17.75 0.06228 0.00612 -0.00280 0.00047 -0.00012 18.25 0.06312 0.00573 -0.00286 0.00047 -0.00010 18.75 0.06336 0.00563 -0.00302 0.00047 -0.00011 19.25 0.06193 0.00580 -0.00293 0.00048 -0.00014 20.25 0.06159 0.00590 -0.00290 0.00048 -0.00015 20.75 0.06047 0.00616 -0.00303 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00010 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06099 0.00573 -0.00306 0.00046 -0.00015 22.75 0.06099 0.00573 -0.00366 0.00046 -0.00018 23.25 0.05967 0.00623 -0.00331 0.00050 -0.00018						
18.75 0.06336 0.00576 -0.00303 0.00047 -0.00011 19.25 0.06270 0.00563 -0.00302 0.00047 -0.00011 19.75 0.06193 0.00580 -0.00293 0.00048 -0.00014 20.25 0.06159 0.00590 -0.00290 0.00048 -0.00015 20.75 0.06047 0.00616 -0.00303 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00014 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00322 0.00046 -0.00014 23.25 0.060023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00331 0.00050 -0.00016 24.24 0.05957 0.00491 -0.00329 0.00052 -0.00019	17.75	0.06228	0.00612	-0.00280	0.00047	-0.00012
19.25 0.06270 0.00563 -0.00302 0.00047 -0.00011 19.75 0.06193 0.00580 -0.00293 0.00048 -0.00014 20.25 0.06159 0.00590 -0.00290 0.00048 -0.00015 20.75 0.06047 0.00616 -0.00311 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00014 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05967 0.00623 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019	18.25	0.06312	0.00573	-0.00286	0.00047	-0.00010
19.75 0.06193 0.00580 -0.00293 0.00048 -0.00014 20.25 0.06159 0.00590 -0.00290 0.00048 -0.00015 20.75 0.06047 0.00616 -0.00303 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00010 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.25 0.05896 0.00569 -0.00331 0.00052 -0.00019 25.24 0.05997 0.00444 -0.00329 0.0052 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020	18.75	0.06336	0.00576	-0.00303	0.00047	-0.00011
20.25 0.06159 0.00590 -0.00290 0.00048 -0.00015 20.75 0.06047 0.00616 -0.00303 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00010 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024	19.25	0.06270	0.00563	-0.00302	0.00047	-0.00011
20.75 0.06047 0.00616 -0.00303 0.00048 -0.00010 21.25 0.06062 0.00581 -0.00311 0.00048 -0.00010 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.0018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00468 -0.00360 0.00051 -0.00024 26.24 0.05994 0.00468 -0.00357 0.00553 -0.00024	19.75	0.06193	0.00580	-0.00293	0.00048	-0.00014
21.25 0.06062 0.00581 -0.00311 0.00048 -0.00010 21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00468 -0.00360 0.00051 -0.00020 26.24 0.05994 0.00468 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00022	20.25	0.06159	0.00590	-0.00290	0.00048	-0.00015
21.75 0.06036 0.00610 -0.00318 0.00050 -0.00014 22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00357 0.00052 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00053 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00022	20.75	0.06047	0.00616	-0.00303	0.00048	-0.00010
22.25 0.06040 0.00574 -0.00314 0.00050 -0.00015 22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00024 28.25 0.05826 0.00553 -0.00360 0.00053 -0.00021	21.25	0.06062	0.00581	-0.00311	0.00048	-0.00010
22.75 0.06009 0.00573 -0.00306 0.00046 -0.00014 23.25 0.06023 0.00619 -0.00322 0.00047 -0.00018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.0031 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00553 -0.00368 0.00052 -0.00023	21.75	0.06036	0.00610	-0.00318	0.00050	-0.00014
23.25 0.06023 0.00619 -0.00322 0.00047 -0.0018 23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00020 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023	22.25	0.06040	0.00574	-0.00314	0.00050	-0.00015
23.75 0.05967 0.00623 -0.00336 0.00050 -0.00017 24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.0051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00052 -0.00023	22.75	0.06009	0.00573	-0.00306	0.00046	-0.00014
24.25 0.05896 0.00569 -0.00331 0.00050 -0.00016 24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00023 30.25 0.05876 0.00510 -0.00372 0.00052 -0.00023	23.25	0.06023	0.00619	-0.00322	0.00047	-0.00018
24.74 0.05957 0.00491 -0.00329 0.00052 -0.00019 25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00026	23.75	0.05967	0.00623	-0.00336	0.00050	-0.00017
25.24 0.06009 0.00484 -0.00331 0.00053 -0.00019 25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00028	24.25	0.05896	0.00569	-0.00331	0.00050	-0.00016
25.74 0.05991 0.00513 -0.00348 0.00052 -0.00020 26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00028	24.74	0.05957	0.00491	-0.00329	0.00052	-0.00019
26.24 0.05994 0.00468 -0.00360 0.00051 -0.00024 26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00028 32.75 0.05672 0.00501 -0.00392 0.00057 -0.00028	25.24	0.06009	0.00484	-0.00331	0.00053	-0.00019
26.74 0.06002 0.00469 -0.00357 0.00052 -0.00024 27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026	25.74	0.05991	0.00513	-0.00348	0.00052	-0.00020
27.25 0.05927 0.00532 -0.00352 0.00053 -0.00020 27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00052 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 31.25 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00028 32.75 0.05672 0.00501 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032	26.24	0.05994	0.00468	-0.00360	0.00051	-0.00024
27.75 0.05837 0.00553 -0.00360 0.00053 -0.00021 28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00375 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032	26.74	0.06002	0.00469	-0.00357	0.00052	-0.00024
28.25 0.05826 0.00550 -0.00368 0.00052 -0.00023 28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00056 -0.00022	27.25	0.05927	0.00532	-0.00352	0.00053	-0.00020
28.75 0.05746 0.00601 -0.00375 0.00052 -0.00023 29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00056 -0.00032	27.75	0.05837	0.00553	-0.00360	0.00053	-0.00021
29.25 0.05763 0.00565 -0.00368 0.00053 -0.00025 29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00056 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00056 -0.00032 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	28.25	0.05826	0.00550	-0.00368	0.00052	-0.00023
29.75 0.05916 0.00486 -0.00372 0.00052 -0.00023 30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	28.75	0.05746	0.00601	-0.00375	0.00052	-0.00023
30.25 0.05876 0.00510 -0.00390 0.00052 -0.00023 30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 34.25 0.05763 0.00434 -0.00372 0.00056 -0.00032 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	29.25	0.05763	0.00565	-0.00368	0.00053	-0.00025
30.75 0.05742 0.00524 -0.00395 0.00054 -0.00026 31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	29.75	0.05916	0.00486	-0.00372	0.00052	-0.00023
31.25 0.05717 0.00513 -0.00377 0.00054 -0.00028 31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	30.25	0.05876	0.00510	-0.00390	0.00052	-0.00023
31.75 0.05806 0.00491 -0.00375 0.00054 -0.00031 32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	30.75	0.05742	0.00524	-0.00395	0.00054	-0.00026
32.25 0.05781 0.00492 -0.00392 0.00057 -0.00028 32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	31.25	0.05717	0.00513	-0.00377	0.00054	-0.00028
32.75 0.05672 0.00501 -0.00401 0.00055 -0.00026 33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	31.75	0.05806	0.00491	-0.00375	0.00054	-0.00031
33.25 0.05653 0.00488 -0.00390 0.00056 -0.00032 33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	32.25	0.05781	0.00492	-0.00392	0.00057	-0.00028
33.75 0.05778 0.00434 -0.00372 0.00056 -0.00032 34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	32.75	0.05672	0.00501	-0.00401	0.00055	-0.00026
34.25 0.05763 0.00460 -0.00381 0.00053 -0.00026 34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	33.25	0.05653	0.00488	-0.00390	0.00056	-0.00032
34.75 0.05650 0.00500 -0.00405 0.00051 -0.00022 35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	33.75	0.05778	0.00434	-0.00372	0.00056	-0.00032
35.25 0.05549 0.00475 -0.00405 0.00056 -0.00032	34.25	0.05763	0.00460	-0.00381	0.00053	-0.00026
	34.75	0.05650	0.00500	-0.00405	0.00051	-0.00022
35.75 0.05527 0.00438 -0.00389 0.00058 -0.00036	35.25	0.05549	0.00475	-0.00405	0.00056	-0.00032
	35.75	0.05527	0.00438	-0.00389	0.00058	-0.00036

36.25 0.05569 0.00440 -0.00387 0.0056 -0.00035 36.75 0.05506 0.00476 -0.00398 0.00054 -0.00033 37.25 0.05416 0.00437 -0.00414 0.00059 -0.00033 37.75 0.05369 0.00482 -0.00416 0.00059 -0.00034 38.25 0.05283 0.00515 -0.00406 0.00057 -0.00032 38.75 0.05266 0.00495 -0.00407 0.00054 -0.00035 39.75 0.05352 0.00455 -0.00398 0.00054 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00044 41.25 0.05155 0.00493 -0.00394 0.00057 -0.00036 41.75 0.05287 0.00403 -0.00393 0.00057 -0.00034 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00043 42.25 0.05161 0.00407 -0.00391 0.00053 -0.00044						
37.25 0.05416 0.00437 -0.00414 0.00057 -0.00033 37.75 0.05369 0.00482 -0.00416 0.00059 -0.00035 38.25 0.05380 0.00515 -0.00406 0.00057 -0.00034 38.75 0.05283 0.00521 -0.00407 0.00056 -0.00032 39.25 0.05266 0.00495 -0.00407 0.00054 -0.00035 39.75 0.05352 0.00455 -0.00398 0.00057 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05157 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00393 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00053 -0.00045 42.25 0.0565 0.00406 -0.00374 0.00053 -0.00044	36.25	0.05569	0.00440	-0.00387	0.00056	-0.00035
37.75 0.05369 0.00482 -0.00416 0.00059 -0.00035 38.25 0.05380 0.00515 -0.00406 0.00057 -0.00034 38.75 0.05283 0.00521 -0.00407 0.00056 -0.00032 39.25 0.05266 0.00495 -0.00398 0.00054 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05177 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00057 -0.00036 41.75 0.05287 0.00495 -0.00393 0.00052 -0.00036 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00053 -0.00041 43.75 0.04841 -0.00382 0.00053 -0.00044 44.75 <	36.75	0.05506	0.00476	-0.00398	0.00054	-0.00033
38.25 0.05380 0.00515 -0.00406 0.00057 -0.00034 38.75 0.05283 0.00521 -0.00407 0.00056 -0.00032 39.25 0.05266 0.00495 -0.00407 0.00054 -0.00035 39.75 0.05352 0.00455 -0.00398 0.00057 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05177 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00391 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.25 0.0565 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 44.75 0.04861 0.00407 -0.00382 0.00054 -0.00044	37.25	0.05416	0.00437	-0.00414	0.00057	-0.00033
38.75 0.05283 0.00521 -0.00407 0.00056 -0.00032 39.25 0.05266 0.00495 -0.00407 0.00054 -0.00035 39.75 0.05352 0.00455 -0.00398 0.00054 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00048 44.25 0.04861 0.00407 -0.00382 0.00053 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04861 0.00447 -0.00383 0.00056 -0.00044	37.75	0.05369	0.00482	-0.00416	0.00059	-0.00035
39.25 0.05266 0.00495 -0.00407 0.00054 -0.00035 39.75 0.05352 0.00455 -0.00398 0.00054 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05177 0.00463 -0.00394 0.00057 -0.00037 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00053 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043	38.25	0.05380	0.00515	-0.00406	0.00057	-0.00034
39.75 0.05352 0.00455 -0.00398 0.00054 -0.00042 40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05177 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00053 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043	38.75	0.05283	0.00521	-0.00407	0.00056	-0.00032
40.25 0.05313 0.00430 -0.00393 0.00057 -0.00041 40.76 0.05177 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00056 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00382 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043	39.25	0.05266	0.00495	-0.00407	0.00054	-0.00035
40.76 0.05177 0.00463 -0.00394 0.00057 -0.00036 41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00044	39.75	0.05352	0.00455	-0.00398	0.00054	-0.00042
41.25 0.05155 0.00495 -0.00393 0.00052 -0.00037 41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 47.25 0.04711 0.00448 -0.00389 0.00051 -0.00049	40.25	0.05313	0.00430	-0.00393	0.00057	-0.00041
41.75 0.05287 0.00409 -0.00395 0.00053 -0.00045 42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00044 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 47.25 0.04713 0.00421 -0.00389 0.00051 -0.00049 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050	40.76	0.05177	0.00463	-0.00394	0.00057	-0.00036
42.25 0.05161 0.00407 -0.00391 0.00056 -0.00045 42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04711 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050	41.25	0.05155	0.00495	-0.00393	0.00052	-0.00037
42.75 0.05065 0.00406 -0.00374 0.00055 -0.00038 43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04711 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00455 -0.00417 0.00053 -0.00047	41.75	0.05287	0.00409	-0.00395	0.00053	-0.00045
43.25 0.04977 0.00478 -0.00382 0.00053 -0.00041 43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00389 0.00050 -0.00049 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00053	42.25	0.05161	0.00407	-0.00391	0.00056	-0.00045
43.75 0.04834 0.00514 -0.00392 0.00054 -0.00048 44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053	42.75	0.05065	0.00406	-0.00374	0.00055	-0.00038
44.25 0.04861 0.00407 -0.00383 0.00056 -0.00044 44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052	43.25	0.04977	0.00478	-0.00382	0.00053	-0.00041
44.75 0.04947 0.00361 -0.00362 0.00053 -0.00043 45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00055	43.75	0.04834	0.00514	-0.00392	0.00054	-0.00048
45.25 0.04787 0.00444 -0.00358 0.00052 -0.00043 45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055	44.25	0.04861	0.00407	-0.00383	0.00056	-0.00044
45.75 0.04579 0.00549 -0.00389 0.00052 -0.00043 46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00054 -0.00055	44.75	0.04947	0.00361	-0.00362	0.00053	-0.00043
46.25 0.04660 0.00500 -0.00405 0.00053 -0.00047 46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00423 0.00053 -0.00055 51.75 0.04272 0.00458 -0.00434 0.00054 -0.00055	45.25	0.04787	0.00444	-0.00358	0.00052	-0.00043
46.75 0.04741 0.00448 -0.00389 0.00051 -0.00049 47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00055 52.75 0.04078 0.00473 -0.00438 0.00054 -0.00055	45.75	0.04579	0.00549	-0.00389	0.00052	-0.00043
47.25 0.04713 0.00421 -0.00380 0.00050 -0.00051 47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00054 -0.00055 53.25 0.04015 0.00488 -0.00435 0.00054 -0.00055	46.25	0.04660	0.00500	-0.00405	0.00053	-0.00047
47.75 0.04576 0.00440 -0.00395 0.00052 -0.00050 48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00438 0.00054 -0.00055 53.25 0.04015 0.00488 -0.00435 0.00054 -0.00055	46.75	0.04741	0.00448	-0.00389	0.00051	-0.00049
48.25 0.04467 0.00460 -0.00406 0.00053 -0.00046 48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	47.25	0.04713	0.00421	-0.00380	0.00050	-0.00051
48.75 0.04518 0.00435 -0.00417 0.00053 -0.00047 49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00055 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	47.75	0.04576	0.00440	-0.00395	0.00052	-0.00050
49.25 0.04601 0.00381 -0.00408 0.00055 -0.00053 49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00055 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	48.25	0.04467	0.00460	-0.00406	0.00053	-0.00046
49.75 0.04402 0.00465 -0.00408 0.00055 -0.00052 50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00055 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	48.75	0.04518	0.00435	-0.00417	0.00053	-0.00047
50.25 0.04210 0.00528 -0.00428 0.00054 -0.00047 50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	49.25	0.04601	0.00381	-0.00408	0.00055	-0.00053
50.75 0.04127 0.00519 -0.00444 0.00056 -0.00051 51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	49.75	0.04402	0.00465	-0.00408	0.00055	-0.00052
51.25 0.04164 0.00503 -0.00431 0.00056 -0.00055 51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	50.25	0.04210	0.00528	-0.00428	0.00054	-0.00047
51.75 0.04272 0.00458 -0.00423 0.00053 -0.00054 52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	50.75	0.04127	0.00519	-0.00444	0.00056	-0.00051
52.25 0.04217 0.00464 -0.00434 0.00054 -0.00055 52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	51.25	0.04164	0.00503	-0.00431	0.00056	-0.00055
52.75 0.04078 0.00473 -0.00439 0.00056 -0.00055 53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	51.75	0.04272	0.00458	-0.00423	0.00053	-0.00054
53.25 0.04015 0.00488 -0.00438 0.00054 -0.00057 53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	52.25	0.04217	0.00464	-0.00434	0.00054	-0.00055
53.75 0.03947 0.00536 -0.00435 0.00054 -0.00055	52.75	0.04078	0.00473	-0.00439	0.00056	-0.00055
	53.25	0.04015	0.00488	-0.00438	0.00054	-0.00057
54.25 0.04033 0.00475 -0.00439 0.00055 -0.00054	53.75	0.03947	0.00536	-0.00435	0.00054	-0.00055
	54.25	0.04033	0.00475	-0.00439	0.00055	-0.00054

54.75	0.03937	0.00469	-0.00445	0.00054	-0.00053
55.25	0.03713	0.00538	-0.00453	0.00055	-0.00050
55.75	0.03793	0.00482	-0.00440	0.00054	-0.00054
56.25	0.03837	0.00474	-0.00442	0.00053	-0.00057
56.75	0.03718	0.00488	-0.00453	0.00054	-0.00058
57.25	0.03706	0.00396	-0.00446	0.00054	-0.00059
57.75	0.03509	0.00454	-0.00453	0.00055	-0.00057
58.25	0.03436	0.00504	-0.00449	0.00055	-0.00056
58.75	0.03480	0.00497	-0.00445	0.00055	-0.00057
59.25	0.03435	0.00461	-0.00456	0.00056	-0.00061
59.75	0.03297	0.00461	-0.00461	0.00057	-0.00061
60.25	0.03135	0.00519	-0.00442	0.00055	-0.00055
60.75	0.03093	0.00519	-0.00440	0.00056	-0.00054
61.25	0.03058	0.00498	-0.00447	0.00056	-0.00055
61.75	0.02933	0.00494	-0.00439	0.00054	-0.00050
62.25	0.02666	0.00593	-0.00433	0.00054	-0.00043
62.75	0.02522	0.00671	-0.00433	0.00052	-0.00041
63.25	0.02453	0.00675	-0.00434	0.00051	-0.00040
63.75	0.02341	0.00677	-0.00443	0.00054	-0.00037
64.25	0.02190	0.00708	-0.00430	0.00053	-0.00034
64.75	0.02101	0.00711	-0.00412	0.00051	-0.00034
65.25	0.02155	0.00626	-0.00407	0.00053	-0.00038
65.75	0.02002	0.00665	-0.00411	0.00053	-0.00039
66.24	0.01793	0.00728	-0.00414	0.00051	-0.00034
66.74	0.01628	0.00779	-0.00423	0.00051	-0.00025
67.25	0.01701	0.00701	-0.00410	0.00053	-0.00029
67.75	0.01562	0.00746	-0.00393	0.00052	-0.00032
68.25	0.01347	0.00804	-0.00412	0.00053	-0.00025
68.75	0.01342	0.00791	-0.00431	0.00053	-0.00022
69.25	0.01274	0.00857	-0.00428	0.00051	-0.00026
69.75	0.01212	0.00841	-0.00437	0.00054	-0.00026
70.25	0.01253	0.00756	-0.00453	0.00056	-0.00023
70.75	0.01278	0.00723	-0.00442	0.00055	-0.00022
71.25	0.01200	0.00727	-0.00430	0.00056	-0.00021
71.75	0.01074	0.00778	-0.00447	0.00055	-0.00023
72.25	0.00929	0.00838	-0.00455	0.00053	-0.00022
72.75	0.00881	0.00824	-0.00456	0.00054	-0.00017
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		T	T	T	1
73.25	0.00901	0.00807	-0.00469	0.00055	-0.00016
73.75	0.00872	0.00811	-0.00465	0.00054	-0.00019
74.25	0.00810	0.00800	-0.00458	0.00054	-0.00017
74.75	0.00749	0.00801	-0.00471	0.00056	-0.00016
75.25	0.00650	0.00827	-0.00480	0.00055	-0.00015
75.75	0.00667	0.00803	-0.00473	0.00054	-0.00015
76.25	0.00663	0.00794	-0.00469	0.00054	-0.00016
76.75	0.00600	0.00761	-0.00482	0.00056	-0.00012
77.25	0.00514	0.00765	-0.00485	0.00056	-0.00011
77.75	0.00567	0.00772	-0.00468	0.00055	-0.00013
78.25	0.00596	0.00771	-0.00476	0.00055	-0.00013
78.75	0.00422	0.00809	-0.00502	0.00055	-0.00012
79.25	0.00294	0.00819	-0.00485	0.00056	-0.00007
79.75	0.00381	0.00774	-0.00474	0.00056	-0.00008
80.25	0.00332	0.00789	-0.00484	0.00055	-0.00009
80.75	0.00218	0.00799	-0.00483	0.00055	-0.00012
81.25	0.00169	0.00787	-0.00487	0.00055	-0.00008
81.75	0.00148	0.00797	-0.00485	0.00056	-0.00006
82.25	0.00107	0.00767	-0.00482	0.00056	-0.00008
82.75	0.00123	0.00767	-0.00478	0.00054	-0.00005
83.25	0.00187	0.00745	-0.00470	0.00052	-0.00009
83.75	0.00113	0.00732	-0.00475	0.00053	-0.00006
84.26	0.00021	0.00776	-0.00486	0.00055	-0.00001
84.75	-0.00089	0.00824	-0.00458	0.00052	-0.00001
85.25	-0.00089	0.00795	-0.00464	0.00052	-0.00001
85.75	-0.00076	0.00760	-0.00451	0.00053	-0.00001
86.25	-0.00109	0.00777	-0.00464	0.00053	0.00000
86.76	-0.00155	0.00772	-0.00463	0.00052	0.00002
87.25	-0.00235	0.00769	-0.00441	0.00053	0.00003
87.76	-0.00180	0.00750	-0.00457	0.00052	0.00005
88.25	-0.00221	0.00729	-0.00443	0.00052	0.00005
88.75	-0.00292	0.00763	-0.00439	0.00052	0.00009
89.26	-0.00378	0.00775	-0.00427	0.00051	0.00011
89.74	-0.00404	0.00792	-0.00426	0.00050	0.00015

Table 40. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	00°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.24	0.08897	0.00988	-0.00142	0.00001	0.00024
0.74	0.08919	0.00960	-0.00112	-0.00002	0.00026
1.25	0.09005	0.00935	-0.00097	0.00001	0.00025
1.74	0.08935	0.00982	-0.00085	0.00000	0.00017
2.25	0.09035	0.00966	-0.00095	-0.00001	0.00016
2.75	0.08868	0.01050	-0.00080	-0.00003	0.00015
3.25	0.08939	0.01007	-0.00098	-0.00001	0.00014
3.75	0.08999	0.00990	-0.00101	0.00001	0.00011
4.25	0.08892	0.01074	-0.00114	0.00000	0.00012
4.74	0.08952	0.00995	-0.00101	0.00000	0.00005
5.25	0.09091	0.00906	-0.00103	0.00003	0.00007
5.75	0.09067	0.00922	-0.00133	0.00006	0.00002
6.24	0.08935	0.00977	-0.00129	0.00006	0.00004
6.75	0.08973	0.01011	-0.00131	0.00004	0.00005
7.25	0.08984	0.01015	-0.00155	0.00004	0.00005
7.74	0.09079	0.00886	-0.00141	0.00006	0.00001
8.25	0.09043	0.00888	-0.00130	0.00004	0.00005
8.75	0.08936	0.00910	-0.00159	0.00006	0.00001
9.25	0.08957	0.00968	-0.00161	0.00007	-0.00001
9.74	0.09051	0.00970	-0.00158	0.00008	-0.00002
10.25	0.08916	0.01002	-0.00160	0.00009	0.00000
10.75	0.08862	0.00981	-0.00163	0.00007	0.00002
11.25	0.08807	0.01003	-0.00168	0.00007	-0.00006
11.75	0.08862	0.00993	-0.00164	0.00009	-0.00007
12.25	0.08823	0.01027	-0.00177	0.00010	0.00000
12.75	0.08717	0.01022	-0.00198	0.00009	-0.00006
13.25	0.08670	0.00987	-0.00190	0.00010	-0.00008
13.75	0.08839	0.00933	-0.00177	0.00010	-0.00009
14.25	0.08868	0.00950	-0.00188	0.00010	-0.00004
14.75	0.08780	0.00952	-0.00202	0.00009	-0.00007
15.25	0.08799	0.00911	-0.00210	0.00013	-0.00010
15.75	0.08852	0.00883	-0.00206	0.00016	-0.00007
16.25	0.08704	0.00948	-0.00209	0.00014	-0.00003
16.75	0.08620	0.00963	-0.00221	0.00013	-0.00008
17.25	0.08695	0.00888	-0.00230	0.00016	-0.00017

17.75	0.08814	0.00833	-0.00215	0.00017	-0.00013
18.25	0.08719	0.00953	-0.00218	0.00014	-0.00006
18.75	0.08714	0.00972	-0.00251	0.00016	-0.00008
19.25	0.08808	0.00876	-0.00255	0.00018	-0.00014
19.75	0.08658	0.00965	-0.00230	0.00015	-0.00013
20.25	0.08636	0.00957	-0.00218	0.00014	-0.00007
20.75	0.08604	0.00957	-0.00239	0.00014	-0.00006
21.25	0.08506	0.00982	-0.00247	0.00013	-0.00009
21.75	0.08545	0.00961	-0.00239	0.00013	-0.00007
22.25	0.08562	0.00943	-0.00238	0.00016	-0.00005
22.75	0.08452	0.00942	-0.00258	0.00018	-0.00006
23.25	0.08351	0.00958	-0.00269	0.00019	-0.00010
23.75	0.08360	0.00962	-0.00266	0.00020	-0.00012
24.25	0.08399	0.00924	-0.00269	0.00022	-0.00010
24.74	0.08408	0.00889	-0.00270	0.00018	-0.00004
25.24	0.08452	0.00854	-0.00281	0.00017	-0.00003
25.74	0.08503	0.00841	-0.00291	0.00021	-0.00011
26.24	0.08511	0.00851	-0.00294	0.00024	-0.00011
26.75	0.08373	0.00885	-0.00302	0.00024	-0.00007
27.25	0.08339	0.00864	-0.00311	0.00022	-0.00010
27.75	0.08303	0.00854	-0.00326	0.00025	-0.00009
28.25	0.08276	0.00855	-0.00320	0.00024	-0.00010
28.75	0.08352	0.00857	-0.00305	0.00023	-0.00010
29.25	0.08187	0.00917	-0.00318	0.00025	-0.00006
29.75	0.08159	0.00836	-0.00349	0.00028	-0.00009
30.25	0.08255	0.00795	-0.00345	0.00030	-0.00013
30.75	0.08226	0.00868	-0.00327	0.00029	-0.00009
31.25	0.08168	0.00867	-0.00335	0.00027	-0.00008
31.75	0.08085	0.00798	-0.00346	0.00029	-0.00015
32.25	0.07956	0.00876	-0.00347	0.00029	-0.00012
32.75	0.08070	0.00844	-0.00338	0.00027	-0.00008
33.25	0.08143	0.00765	-0.00346	0.00026	-0.00008
33.75	0.08035	0.00763	-0.00361	0.00027	-0.00009
34.25	0.07912	0.00801	-0.00355	0.00028	-0.00012
34.75	0.07901	0.00795	-0.00344	0.00029	-0.00014
35.25	0.07877	0.00786	-0.00350	0.00028	-0.00014
35.75	0.07695	0.00864	-0.00362	0.00028	-0.00015
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36.25 0.07624 0.00861 -0.00355 0.00027 -0.00017 36.75 0.07697 0.00806 -0.00358 0.00030 -0.00018 37.25 0.07745 0.00774 -0.00362 0.00030 -0.00017 37.75 0.07624 0.00807 -0.00358 0.00029 -0.00013 38.25 0.07517 0.00839 -0.00376 0.00029 -0.00020 39.25 0.07550 0.00784 -0.00374 0.00033 -0.00022 39.75 0.07526 0.00785 -0.00365 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00029 -0.00021 41.26 0.07233 0.00794 -0.00360 0.00028 -0.00022 41.75 0.07345 0.00676 -0.00360 0.00028 -0.00021 42.25 0.07345 0.00663 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00350 0.00028 -0.00025						
37.25 0.07745 0.00774 -0.00362 0.00030 -0.00017 37.75 0.07624 0.00807 -0.00358 0.00029 -0.00016 38.25 0.07517 0.00839 -0.00364 0.00029 -0.00013 38.75 0.07550 0.00784 -0.00376 0.00033 -0.00022 39.75 0.07526 0.00785 -0.00365 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00022 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00351 0.00028 -0.00022 43.75 0.07299 0.00724 -0.00356 0.00025 -0.00025	36.25	0.07624	0.00861	-0.00355	0.00027	-0.00017
37.75 0.07624 0.00807 -0.00358 0.00029 -0.00016 38.25 0.07517 0.00839 -0.00364 0.00027 -0.00013 38.75 0.07542 0.00811 -0.00376 0.00029 -0.00020 39.25 0.07550 0.00784 -0.00374 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00032 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00021 41.26 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00351 0.00028 -0.00025 43.75 0.07229 0.00724 -0.00356 0.00028 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00022	36.75	0.07697	0.00806	-0.00358	0.00030	-0.00018
38.25 0.07517 0.00839 -0.00364 0.00027 -0.00013 38.75 0.07542 0.00811 -0.00376 0.00029 -0.00020 39.25 0.07550 0.00784 -0.00374 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00032 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00351 0.00028 -0.00025 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07043 0.00733 -0.00356 0.00028 -0.00023	37.25	0.07745	0.00774	-0.00362	0.00030	-0.00017
38.75 0.07542 0.00811 -0.00376 0.00029 -0.00020 39.25 0.07550 0.00784 -0.00374 0.00033 -0.00022 39.75 0.07526 0.00785 -0.00365 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00029 -0.00022 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00663 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00029 43.75 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.0074 -0.00350 0.00028 -0.00022	37.75	0.07624	0.00807	-0.00358	0.00029	-0.00016
39.25 0.07550 0.00784 -0.00374 0.00033 -0.00017 39.75 0.07526 0.00785 -0.00365 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00029 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00663 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00025 43.75 0.07029 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032	38.25	0.07517	0.00839	-0.00364	0.00027	-0.00013
39.75 0.07526 0.00785 -0.00365 0.00033 -0.00017 40.25 0.07465 0.00795 -0.00370 0.00032 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00666 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00032	38.75	0.07542	0.00811	-0.00376	0.00029	-0.00020
40.25 0.07465 0.00795 -0.00370 0.00032 -0.00018 40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00666 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07043 0.00733 -0.00356 0.00025 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.06883 0.00726 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06856 0.00696 -0.00344 0.00027 -0.00032	39.25	0.07550	0.00784	-0.00374	0.00033	-0.00022
40.76 0.07354 0.00771 -0.00376 0.00029 -0.00022 41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07048 0.00733 -0.00326 0.00025 -0.00023 44.25 0.07043 0.00733 -0.00350 0.00028 -0.00023 44.75 0.06883 0.00726 -0.00359 0.00029 -0.00027 45.25 0.06883 0.00712 -0.00351 0.00027 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00032 46.25 0.06856 0.00696 -0.00344 0.00027 -0.00028	39.75	0.07526	0.00785	-0.00365	0.00033	-0.00017
41.26 0.07223 0.00794 -0.00360 0.00028 -0.00020 41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00032 45.75 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028	40.25	0.07465	0.00795	-0.00370	0.00032	-0.00018
41.75 0.07291 0.00733 -0.00348 0.00028 -0.00021 42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 47.25 0.06896 0.00683 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038	40.76	0.07354	0.00771	-0.00376	0.00029	-0.00022
42.25 0.07345 0.00676 -0.00351 0.00028 -0.00025 42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.0079 -0.00378 0.00029 -0.00030	41.26	0.07223	0.00794	-0.00360	0.00028	-0.00020
42.75 0.07346 0.00663 -0.00362 0.00029 -0.00029 43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06896 0.00683 -0.00344 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06679 0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 <t< td=""><td>41.75</td><td>0.07291</td><td>0.00733</td><td>-0.00348</td><td>0.00028</td><td>-0.00021</td></t<>	41.75	0.07291	0.00733	-0.00348	0.00028	-0.00021
43.25 0.07229 0.00724 -0.00356 0.00028 -0.00026 43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037	42.25	0.07345	0.00676	-0.00351	0.00028	-0.00025
43.75 0.07058 0.00749 -0.00331 0.00026 -0.00023 44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037	42.75	0.07346	0.00663	-0.00362	0.00029	-0.00029
44.25 0.07043 0.00733 -0.00326 0.00025 -0.00023 44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00028 -0.00038 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00036 49.25 0.06582 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042	43.25	0.07229	0.00724	-0.00356	0.00028	-0.00026
44.75 0.07046 0.00704 -0.00350 0.00028 -0.00027 45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06582 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06475 0.00668 -0.00412 0.00033 -0.00042	43.75	0.07058	0.00749	-0.00331	0.00026	-0.00023
45.25 0.06883 0.00726 -0.00359 0.00029 -0.00032 45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06458 0.00668 -0.00417 0.00034 -0.00045	44.25	0.07043	0.00733	-0.00326	0.00025	-0.00023
45.75 0.06826 0.00712 -0.00351 0.00027 -0.00030 46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041	44.75	0.07046	0.00704	-0.00350	0.00028	-0.00027
46.25 0.06856 0.00696 -0.00344 0.00025 -0.00025 46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00682 -0.00405 0.00032 -0.00048	45.25	0.06883	0.00726	-0.00359	0.00029	-0.00032
46.75 0.06911 0.00697 -0.00370 0.00027 -0.00028 47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00032 -0.00048 52.25 0.06101 0.00682 -0.00405 0.00029 -0.00048	45.75	0.06826	0.00712	-0.00351	0.00027	-0.00030
47.25 0.06896 0.00683 -0.00384 0.00028 -0.00038 47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00682 -0.00405 0.00032 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058	46.25	0.06856	0.00696	-0.00344	0.00025	-0.00025
47.75 0.06779 0.00671 -0.00377 0.00028 -0.00036 48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00681 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00031 -0.00048 53.25 0.06326 0.00586 -0.00430 0.00032 -0.00048	46.75	0.06911	0.00697	-0.00370	0.00027	-0.00028
48.25 0.06689 0.00709 -0.00378 0.00029 -0.00030 48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00048 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	47.25	0.06896	0.00683	-0.00384	0.00028	-0.00038
48.75 0.06726 0.00678 -0.00386 0.00031 -0.00036 49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00430 0.00032 -0.00048 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	47.75	0.06779	0.00671	-0.00377	0.00028	-0.00036
49.25 0.06582 0.00651 -0.00397 0.00033 -0.00037 49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00430 0.00032 -0.00048 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	48.25	0.06689	0.00709	-0.00378	0.00029	-0.00030
49.75 0.06479 0.00606 -0.00408 0.00033 -0.00037 50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00430 0.00032 -0.00048 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	48.75	0.06726	0.00678	-0.00386	0.00031	-0.00036
50.25 0.06472 0.00644 -0.00412 0.00033 -0.00042 50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	49.25	0.06582	0.00651	-0.00397	0.00033	-0.00037
50.75 0.06475 0.00668 -0.00405 0.00033 -0.00044 51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	49.75	0.06479	0.00606	-0.00408	0.00033	-0.00037
51.25 0.06458 0.00641 -0.00417 0.00034 -0.00045 51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	50.25	0.06472	0.00644	-0.00412	0.00033	-0.00042
51.75 0.06278 0.00620 -0.00425 0.00034 -0.00041 52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	50.75	0.06475	0.00668	-0.00405	0.00033	-0.00044
52.25 0.06101 0.00661 -0.00422 0.00032 -0.00038 52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	51.25	0.06458	0.00641	-0.00417	0.00034	-0.00045
52.75 0.06219 0.00682 -0.00405 0.00029 -0.00048 53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	51.75	0.06278	0.00620	-0.00425	0.00034	-0.00041
53.25 0.06326 0.00586 -0.00409 0.00031 -0.00058 53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	52.25	0.06101	0.00661	-0.00422	0.00032	-0.00038
53.75 0.06085 0.00583 -0.00430 0.00032 -0.00048	52.75	0.06219	0.00682	-0.00405	0.00029	-0.00048
	53.25	0.06326	0.00586	-0.00409	0.00031	-0.00058
54.25 0.05896 0.00625 -0.00426 0.00032 -0.00045	53.75	0.06085	0.00583	-0.00430	0.00032	-0.00048
	54.25	0.05896	0.00625	-0.00426	0.00032	-0.00045

54.75 0.05858 0.00621 -0.00407 0.00030 -0.00051 55.25 0.05832 0.00622 -0.00413 0.00028 -0.00054 55.75 0.05722 0.00624 -0.00426 0.00030 -0.00055 56.25 0.05565 0.00602 -0.00420 0.00030 -0.00052 56.75 0.05536 0.00602 -0.00410 0.00029 -0.00059 57.25 0.05577 0.00604 -0.00413 0.00029 -0.00067 58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00424 0.00025 -0.00067						
55.75 0.05722 0.00624 -0.00426 0.00030 -0.00055 56.25 0.05565 0.00624 -0.00420 0.00030 -0.00053 56.75 0.05536 0.00602 -0.00408 0.00030 -0.00052 57.25 0.05577 0.00604 -0.00410 0.00029 -0.00067 57.75 0.05561 0.00621 -0.00413 0.00029 -0.00067 58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00068 59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04860 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04875 0.00571 -0.00412 0.00030 -0.00073	54.75	0.05858	0.00621	-0.00407	0.00030	-0.00051
56.25 0.05565 0.00624 -0.00420 0.00030 -0.00053 56.75 0.05536 0.00602 -0.00408 0.00030 -0.00052 57.25 0.05577 0.00604 -0.00410 0.00029 -0.00069 57.75 0.05561 0.00621 -0.00413 0.00028 -0.00067 58.25 0.05374 0.00633 -0.00421 0.00031 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00066 59.75 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00025 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04875 0.00571 -0.00424 0.00029 -0.00066 61.75 0.04653 0.00644 -0.00400 0.00025 -0.00077	55.25	0.05832	0.00622	-0.00413	0.00028	-0.00054
56.75 0.05536 0.00602 -0.00408 0.00030 -0.00052 57.25 0.05577 0.00604 -0.00410 0.00029 -0.00059 57.75 0.05561 0.00621 -0.00413 0.00028 -0.00067 58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04472 0.00648 -0.00400 0.00025 -0.00077	55.75	0.05722	0.00624	-0.00426	0.00030	-0.00055
57.25 0.05577 0.00604 -0.00410 0.00029 -0.00059 57.75 0.05561 0.00621 -0.00413 0.00028 -0.00067 58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00029 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00076 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.25 0.04941 0.00526 -0.00395 0.00022 -0.00077	56.25	0.05565	0.00624	-0.00420	0.00030	-0.00053
57.75 0.05561 0.00621 -0.00413 0.00028 -0.00067 58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00029 -0.00070 60.25 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00075 63.75 0.04563 0.0051 -0.00381 0.00026 -0.00076	56.75	0.05536	0.00602	-0.00408	0.00030	-0.00052
58.25 0.05374 0.00633 -0.00423 0.00029 -0.00062 58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00074	57.25	0.05577	0.00604	-0.00410	0.00029	-0.00059
58.75 0.05250 0.00605 -0.00421 0.00031 -0.00058 59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00025 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00532 -0.00381 0.00026 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074	57.75	0.05561	0.00621	-0.00413	0.00028	-0.00067
59.25 0.05254 0.00551 -0.00403 0.00031 -0.00066 59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00025 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00532 -0.00381 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082	58.25	0.05374	0.00633	-0.00423	0.00029	-0.00062
59.75 0.05272 0.00513 -0.00394 0.00029 -0.00070 60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00025 -0.00075 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082	58.75	0.05250	0.00605	-0.00421	0.00031	-0.00058
60.25 0.05208 0.00562 -0.00410 0.00026 -0.00070 60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00025 -0.00075 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082	59.25	0.05254	0.00551	-0.00403	0.00031	-0.00066
60.75 0.04960 0.00647 -0.00426 0.00025 -0.00067 61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084	59.75	0.05272	0.00513	-0.00394	0.00029	-0.00070
61.25 0.04822 0.00604 -0.00424 0.00029 -0.00066 61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083	60.25	0.05208	0.00562	-0.00410	0.00026	-0.00070
61.75 0.04875 0.00571 -0.00412 0.00030 -0.00073 62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00080 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00329 0.00016 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083	60.75	0.04960	0.00647	-0.00426	0.00025	-0.00067
62.25 0.04941 0.00526 -0.00395 0.00027 -0.00081 62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00083 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083	61.25	0.04822	0.00604	-0.00424	0.00029	-0.00066
62.75 0.04653 0.00604 -0.00400 0.00026 -0.00077 63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00017 -0.00083	61.75	0.04875	0.00571	-0.00412	0.00030	-0.00073
63.25 0.04472 0.00648 -0.00405 0.00025 -0.00075 63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084	62.25	0.04941	0.00526	-0.00395	0.00027	-0.00081
63.75 0.04563 0.00551 -0.00381 0.00026 -0.00080 64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00554 -0.00350 0.00019 -0.00087 68.75 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00021 -0.00068	62.75	0.04653	0.00604	-0.00400	0.00026	-0.00077
64.25 0.04504 0.00532 -0.00363 0.00025 -0.00075 64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00329 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03654 0.0054 -0.0038 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03267 0.00617 -0.00376 0.00021 -0.00068 <	63.25	0.04472	0.00648	-0.00405	0.00025	-0.00075
64.75 0.04375 0.00547 -0.00378 0.00024 -0.00074 65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00325 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03267 0.00617 -0.00376 0.00020 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070	63.75	0.04563	0.00551	-0.00381	0.00026	-0.00080
65.25 0.04392 0.00494 -0.00375 0.00022 -0.00082 65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.75 0.03373 0.00550 -0.00376 0.00021 -0.00068 70.75 0.03197 0.00602 -0.00369 0.00022 -0.00074	64.25	0.04504	0.00532	-0.00363	0.00025	-0.00075
65.75 0.04271 0.00518 -0.00346 0.00018 -0.00083 66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00378 0.00021 -0.00068 70.75 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066	64.75	0.04375	0.00547	-0.00378	0.00024	-0.00074
66.24 0.04201 0.00524 -0.00335 0.00016 -0.00079 66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.0064 -0.00389 0.00022 -0.00056	65.25	0.04392	0.00494	-0.00375	0.00022	-0.00082
66.74 0.04099 0.00576 -0.00329 0.00015 -0.00084 67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.0038 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00074 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	65.75	0.04271	0.00518	-0.00346	0.00018	-0.00083
67.25 0.03903 0.00620 -0.00325 0.00014 -0.00083 67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	66.24	0.04201	0.00524	-0.00335	0.00016	-0.00079
67.75 0.03745 0.00623 -0.00345 0.00017 -0.00083 68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	66.74	0.04099	0.00576	-0.00329	0.00015	-0.00084
68.25 0.03784 0.00553 -0.00350 0.00019 -0.00087 68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	67.25	0.03903	0.00620	-0.00325	0.00014	-0.00083
68.75 0.03774 0.00554 -0.00338 0.00017 -0.00083 69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	67.75	0.03745	0.00623	-0.00345	0.00017	-0.00083
69.25 0.03654 0.00564 -0.00349 0.00018 -0.00084 69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	68.25	0.03784	0.00553	-0.00350	0.00019	-0.00087
69.75 0.03404 0.00603 -0.00369 0.00020 -0.00080 70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	68.75	0.03774	0.00554	-0.00338	0.00017	-0.00083
70.25 0.03267 0.00617 -0.00376 0.00021 -0.00068 70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	69.25	0.03654	0.00564	-0.00349	0.00018	-0.00084
70.75 0.03373 0.00550 -0.00378 0.00022 -0.00070 71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	69.75	0.03404	0.00603	-0.00369	0.00020	-0.00080
71.25 0.03197 0.00602 -0.00369 0.00022 -0.00074 71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	70.25	0.03267	0.00617	-0.00376	0.00021	-0.00068
71.75 0.02881 0.00664 -0.00389 0.00022 -0.00066 72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	70.75	0.03373	0.00550	-0.00378	0.00022	-0.00070
72.25 0.02801 0.00619 -0.00412 0.00022 -0.00056	71.25	0.03197	0.00602	-0.00369	0.00022	-0.00074
	71.75	0.02881	0.00664	-0.00389	0.00022	-0.00066
72.75 0.02869 0.00557 -0.00413 0.00026 -0.00052	72.25	0.02801	0.00619	-0.00412	0.00022	-0.00056
	72.75	0.02869	0.00557	-0.00413	0.00026	-0.00052

			,		1
73.25	0.02778	0.00595	-0.00412	0.00028	-0.00046
73.75	0.02486	0.00696	-0.00421	0.00025	-0.00038
74.25	0.02213	0.00758	-0.00428	0.00024	-0.00031
74.75	0.02016	0.00816	-0.00416	0.00023	-0.00024
75.25	0.02068	0.00750	-0.00418	0.00025	-0.00023
75.75	0.02057	0.00715	-0.00429	0.00025	-0.00026
76.25	0.01727	0.00779	-0.00420	0.00023	-0.00020
76.75	0.01535	0.00774	-0.00417	0.00024	-0.00008
77.25	0.01531	0.00790	-0.00429	0.00024	-0.00016
77.75	0.01496	0.00734	-0.00432	0.00023	-0.00026
78.25	0.01192	0.00776	-0.00431	0.00022	-0.00021
78.75	0.00940	0.00872	-0.00424	0.00022	-0.00015
79.25	0.00862	0.00863	-0.00414	0.00022	-0.00017
79.75	0.00788	0.00837	-0.00417	0.00023	-0.00018
80.25	0.00695	0.00875	-0.00410	0.00020	-0.00017
80.75	0.00592	0.00846	-0.00418	0.00022	-0.00015
81.25	0.00507	0.00830	-0.00409	0.00022	-0.00009
81.75	0.00409	0.00897	-0.00415	0.00019	-0.00005
82.25	0.00350	0.00853	-0.00425	0.00020	-0.00009
82.75	0.00256	0.00816	-0.00401	0.00020	-0.00008
83.25	0.00294	0.00822	-0.00396	0.00021	-0.00012
83.75	0.00062	0.00869	-0.00391	0.00018	-0.00004
84.26	0.00007	0.00895	-0.00400	0.00017	0.00005
84.75	0.00131	0.00873	-0.00392	0.00019	-0.00007
85.25	-0.00099	0.00919	-0.00400	0.00019	0.00005
85.75	0.00041	0.00817	-0.00392	0.00019	0.00003
86.25	-0.00008	0.00835	-0.00376	0.00015	0.00004
86.76	-0.00165	0.00839	-0.00385	0.00017	0.00009
87.25	-0.00135	0.00806	-0.00377	0.00018	0.00002
87.76	-0.00240	0.00820	-0.00370	0.00016	0.00011
88.25	-0.00272	0.00824	-0.00364	0.00017	0.00011
88.75	-0.00286	0.00830	-0.00365	0.00016	0.00014
89.26	-0.00367	0.00854	-0.00348	0.00012	0.00019
89.74	-0.00465	0.00851	-0.00350	0.00014	0.00021

Table 41. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	ROLL $\phi = 0^{\circ}$ -9	00°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.24	0.10245	0.00941	-0.00162	-0.00011	0.00034
0.74	0.10074	0.00929	-0.00134	-0.00012	0.00035
1.25	0.10048	0.00921	-0.00110	-0.00014	0.00030
1.74	0.10018	0.00917	-0.00095	-0.00013	0.00026
2.25	0.10095	0.00908	-0.00102	-0.00013	0.00025
2.75	0.10085	0.00959	-0.00111	-0.00013	0.00022
3.25	0.10093	0.00950	-0.00116	-0.00016	0.00030
3.75	0.10247	0.00879	-0.00133	-0.00013	0.00026
4.25	0.10272	0.00869	-0.00134	-0.00009	0.00017
4.74	0.10164	0.00902	-0.00127	-0.00011	0.00021
5.25	0.10174	0.00947	-0.00141	-0.00013	0.00025
5.75	0.10227	0.00927	-0.00155	-0.00010	0.00017
6.24	0.10180	0.00910	-0.00137	-0.00010	0.00019
6.75	0.10309	0.00838	-0.00156	-0.00008	0.00010
7.25	0.10318	0.00919	-0.00158	-0.00010	0.00016
7.74	0.10243	0.00966	-0.00159	-0.00012	0.00018
8.25	0.10361	0.00878	-0.00165	-0.00012	0.00014
8.75	0.10356	0.00921	-0.00186	-0.00011	0.00018
9.25	0.10281	0.00953	-0.00188	-0.00010	0.00021
9.75	0.10354	0.00906	-0.00183	-0.00010	0.00017
10.25	0.10359	0.00923	-0.00193	-0.00009	0.00016
10.75	0.10245	0.00960	-0.00200	-0.00010	0.00021
11.25	0.10333	0.00901	-0.00207	-0.00009	0.00010
11.75	0.10320	0.00892	-0.00210	-0.00007	0.00009
12.25	0.10189	0.00962	-0.00209	-0.00010	0.00017
12.75	0.10186	0.00950	-0.00232	-0.00010	0.00019
13.25	0.10214	0.00867	-0.00247	-0.00005	0.00015
13.75	0.10125	0.00894	-0.00241	-0.00006	0.00016
14.25	0.10265	0.00891	-0.00247	-0.00006	0.00019
14.75	0.10310	0.00873	-0.00264	-0.00008	0.00017
15.25	0.10084	0.00909	-0.00271	-0.00005	0.00015
15.75	0.10073	0.00905	-0.00259	-0.00005	0.00018
16.25	0.10043	0.00931	-0.00263	-0.00007	0.00019
16.75	0.10057	0.00885	-0.00278	-0.00005	0.00014
17.25	0.10128	0.00803	-0.00282	-0.00003	0.00010

17.75	0.10111	0.00832	-0.00277	-0.00006	0.00014
18.25	0.10006	0.00911	-0.00288	-0.00006	0.00020
18.75	0.09877	0.00961	-0.00301	-0.00007	0.00020
19.25	0.09752	0.00955	-0.00296	-0.00006	0.00023
19.75	0.09871	0.00872	-0.00303	-0.00004	0.00024
20.25	0.09934	0.00878	-0.00311	-0.00005	0.00017
20.75	0.09846	0.00886	-0.00313	-0.00006	0.00016
21.25	0.09834	0.00869	-0.00313	-0.00004	0.00021
21.75	0.09935	0.00824	-0.00316	-0.00005	0.00024
22.25	0.09903	0.00802	-0.00318	-0.00006	0.00023
22.75	0.09730	0.00845	-0.00318	-0.00004	0.00024
23.25	0.09732	0.00848	-0.00328	-0.00003	0.00017
23.75	0.09628	0.00879	-0.00339	-0.00001	0.00016
24.24	0.09596	0.00869	-0.00348	0.00002	0.00017
24.74	0.09634	0.00858	-0.00358	0.00003	0.00014
25.24	0.09604	0.00850	-0.00359	0.00003	0.00014
25.74	0.09564	0.00870	-0.00362	0.00001	0.00015
26.24	0.09575	0.00886	-0.00373	0.00003	0.00014
26.74	0.09569	0.00884	-0.00380	0.00005	0.00015
27.25	0.09584	0.00832	-0.00380	0.00004	0.00015
27.75	0.09590	0.00833	-0.00382	0.00005	0.00018
28.25	0.09570	0.00876	-0.00393	0.00007	0.00018
28.75	0.09436	0.00903	-0.00395	0.00006	0.00015
29.25	0.09449	0.00879	-0.00388	0.00007	0.00010
29.75	0.09529	0.00820	-0.00382	0.00010	0.00011
30.25	0.09498	0.00840	-0.00401	0.00011	0.00015
30.75	0.09436	0.00848	-0.00415	0.00013	0.00010
31.25	0.09351	0.00839	-0.00406	0.00015	0.00015
31.75	0.09256	0.00881	-0.00400	0.00013	0.00020
32.25	0.09351	0.00849	-0.00416	0.00013	0.00016
32.75	0.09434	0.00784	-0.00430	0.00013	0.00013
33.25	0.09352	0.00769	-0.00432	0.00017	0.00013
33.75	0.09223	0.00877	-0.00432	0.00017	0.00012
34.25	0.09242	0.00940	-0.00436	0.00016	0.00008
34.75	0.09247	0.00909	-0.00428	0.00016	0.00009
35.25	0.09107	0.00937	-0.00426	0.00017	0.00011
35.75	0.09010	0.00984	-0.00427	0.00017	0.00014

36.25 0.09107 0.00959 -0.00433 0.00019 0.00011 36.75 0.09231 0.00916 -0.00437 0.00021 0.00004 37.25 0.09150 0.00900 -0.00447 0.00022 0.00008 37.75 0.09034 0.00903 -0.00441 0.00022 0.00002 38.25 0.09002 0.00918 -0.00429 0.00023 0.00002 38.75 0.09124 0.00850 -0.00437 0.00028 -0.00003 39.75 0.09050 0.00817 -0.00449 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00418 0.00026 -0.00002 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00002 41.75 0.08842 0.00853 -0.00439 0.00030 -0.00004 42.25 0.0813 0.00848 -0.00423 0.00029 -0.00008 4						
37.25 0.09150 0.00900 -0.00447 0.00023 0.00007 37.75 0.09034 0.00903 -0.00441 0.00022 0.00008 38.25 0.09002 0.00918 -0.00429 0.00023 0.00002 38.75 0.09119 0.00877 -0.00449 0.00027 -0.00004 39.75 0.09050 0.00817 -0.00428 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00439 0.00030 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00004 42.25 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08731 0.00812 -0.00416 0.00039 -0.00014 <td< td=""><td>36.25</td><td>0.09107</td><td>0.00959</td><td>-0.00433</td><td>0.00019</td><td>0.00011</td></td<>	36.25	0.09107	0.00959	-0.00433	0.00019	0.00011
37.75 0.09034 0.00903 -0.00441 0.00022 0.00008 38.25 0.09002 0.00918 -0.00429 0.00023 0.00002 38.75 0.09124 0.00850 -0.00437 0.00028 -0.00003 39.24 0.09119 0.00877 -0.00428 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08842 0.00853 -0.00439 0.00030 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00004 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00415 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 <t< td=""><td>36.75</td><td>0.09231</td><td>0.00916</td><td>-0.00437</td><td>0.00021</td><td>0.00004</td></t<>	36.75	0.09231	0.00916	-0.00437	0.00021	0.00004
38.25 0.09002 0.00918 -0.00429 0.00023 0.00002 38.75 0.09124 0.00850 -0.00437 0.00028 -0.00003 39.24 0.09119 0.00877 -0.00449 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00413 0.00029 -0.00008 42.25 0.08813 0.00848 -0.00415 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08731 0.00848 -0.00415 0.00029 -0.00012 43.25 0.08731 0.00812 -0.00412 0.00029 -0.00011 44.25 0.08676 0.00805 -0.0038 0.00028 -0.00019 <t< td=""><td>37.25</td><td>0.09150</td><td>0.00900</td><td>-0.00447</td><td>0.00023</td><td>0.00007</td></t<>	37.25	0.09150	0.00900	-0.00447	0.00023	0.00007
38.75 0.09124 0.00850 -0.00437 0.00028 -0.00003 39.24 0.09119 0.00877 -0.00449 0.00027 -0.00004 39.75 0.09050 0.00817 -0.00428 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00008 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08731 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08871 0.00854 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019	37.75	0.09034	0.00903	-0.00441	0.00022	0.00008
39.24 0.09119 0.00877 -0.00449 0.00027 -0.00004 39.75 0.09050 0.00817 -0.00428 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00008 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00032 -0.00025	38.25	0.09002	0.00918	-0.00429	0.00023	0.00002
39.75 0.09050 0.00817 -0.00428 0.00026 -0.00002 40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00004 42.25 0.08813 0.00848 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00415 0.00030 -0.00012 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025	38.75	0.09124	0.00850	-0.00437	0.00028	-0.00003
40.25 0.09025 0.00807 -0.00412 0.00024 0.00000 40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022	39.24	0.09119	0.00877	-0.00449	0.00027	-0.00004
40.76 0.09014 0.00870 -0.00418 0.00022 -0.00002 41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08666 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08544 0.0063 -0.00411 0.00032 -0.00025	39.75	0.09050	0.00817	-0.00428	0.00026	-0.00002
41.25 0.08963 0.00836 -0.00439 0.00030 -0.00008 41.75 0.08842 0.00853 -0.00436 0.00029 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08666 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.75 0.08557 0.00753 -0.00411 0.00032 -0.00025 47.25 0.08454 0.00713 -0.00402 0.00033 -0.00026	40.25	0.09025	0.00807	-0.00412	0.00024	0.00000
41.75 0.08842 0.00853 -0.00436 0.00029 -0.00004 42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00039 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08454 0.00743 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00422 0.00033 -0.00025	40.76	0.09014	0.00870	-0.00418	0.00022	-0.00002
42.25 0.08813 0.00848 -0.00423 0.00029 -0.00008 42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 47.25 0.08454 0.00713 -0.00402 0.00033 -0.00026 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00025 47.75 0.08368 0.00749 -0.00435 0.00034 -0.00026	41.25	0.08963	0.00836	-0.00439	0.00030	-0.00008
42.75 0.08843 0.00815 -0.00415 0.00030 -0.00012 43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00032 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 47.25 0.08454 0.00713 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00026	41.75	0.08842	0.00853	-0.00436	0.00029	-0.00004
43.25 0.08751 0.00854 -0.00416 0.00030 -0.00011 43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00026 49.25 0.08097 0.00747 -0.00437 0.00035 -0.00026	42.25	0.08813	0.00848	-0.00423	0.00029	-0.00008
43.75 0.08731 0.00812 -0.00412 0.00029 -0.00015 44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 49.25 0.08097 0.00747 -0.00437 0.00035 -0.00026 49.25 0.08094 -0.00434 0.00032 -0.00027 49.75 <	42.75	0.08843	0.00815	-0.00415	0.00030	-0.00012
44.25 0.08711 0.00795 -0.00397 0.00028 -0.00019 44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08097 0.00747 -0.00437 0.00034 -0.00026 49.25 0.08097 0.00747 -0.00434 0.00033 -0.00037 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00036	43.25	0.08751	0.00854	-0.00416	0.00030	-0.00011
44.75 0.08676 0.00805 -0.00388 0.00026 -0.00017 45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08097 0.00747 -0.00426 0.00034 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07953 0.00687 -0.00450 0.00034 -0.00039	43.75	0.08731	0.00812	-0.00412	0.00029	-0.00015
45.25 0.08603 0.00805 -0.00411 0.00030 -0.00019 45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00037 -0.00041	44.25	0.08711	0.00795	-0.00397	0.00028	-0.00019
45.75 0.08570 0.00799 -0.00422 0.00032 -0.00022 46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043	44.75	0.08676	0.00805	-0.00388	0.00026	-0.00017
46.25 0.08557 0.00753 -0.00411 0.00032 -0.00025 46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037	45.25	0.08603	0.00805	-0.00411	0.00030	-0.00019
46.75 0.08554 0.00663 -0.00402 0.00033 -0.00026 47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00034 -0.00042	45.75	0.08570	0.00799	-0.00422	0.00032	-0.00022
47.25 0.08454 0.00713 -0.00402 0.00032 -0.00025 47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051	46.25	0.08557	0.00753	-0.00411	0.00032	-0.00025
47.75 0.08368 0.00749 -0.00423 0.00033 -0.00029 48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00681 -0.00439 0.00036 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00051 53.25 0.07513 0.00647 -0.00454 0.00037 -0.00049	46.75	0.08554	0.00663	-0.00402	0.00033	-0.00026
48.25 0.08181 0.00761 -0.00435 0.00034 -0.00030 48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00036 -0.00042 53.25 0.07555 0.00713 -0.00454 0.00037 -0.00049	47.25	0.08454	0.00713	-0.00402	0.00032	-0.00025
48.75 0.08107 0.00751 -0.00437 0.00035 -0.00026 49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00036 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00049 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	47.75	0.08368	0.00749	-0.00423	0.00033	-0.00029
49.25 0.08097 0.00747 -0.00426 0.00034 -0.00027 49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00036 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00049 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	48.25	0.08181	0.00761	-0.00435	0.00034	-0.00030
49.75 0.08034 0.00769 -0.00434 0.00032 -0.00035 50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	48.75	0.08107	0.00751	-0.00437	0.00035	-0.00026
50.25 0.07965 0.00742 -0.00450 0.00033 -0.00039 50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	49.25	0.08097	0.00747	-0.00426	0.00034	-0.00027
50.75 0.07953 0.00687 -0.00446 0.00034 -0.00036 51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	49.75	0.08034	0.00769	-0.00434	0.00032	-0.00035
51.25 0.07953 0.00663 -0.00451 0.00037 -0.00041 51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	50.25	0.07965	0.00742	-0.00450	0.00033	-0.00039
51.75 0.07823 0.00681 -0.00439 0.00036 -0.00043 52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	50.75	0.07953	0.00687	-0.00446	0.00034	-0.00036
52.25 0.07699 0.00698 -0.00448 0.00035 -0.00037 52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	51.25	0.07953	0.00663	-0.00451	0.00037	-0.00041
52.75 0.07646 0.00724 -0.00470 0.00034 -0.00042 53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	51.75	0.07823	0.00681	-0.00439	0.00036	-0.00043
53.25 0.07555 0.00713 -0.00462 0.00036 -0.00051 53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	52.25	0.07699	0.00698	-0.00448	0.00035	-0.00037
53.75 0.07513 0.00647 -0.00454 0.00037 -0.00049	52.75	0.07646	0.00724	-0.00470	0.00034	-0.00042
	53.25	0.07555	0.00713	-0.00462	0.00036	-0.00051
54.25 0.07421 0.00682 -0.00458 0.00035 -0.00049	53.75	0.07513	0.00647	-0.00454	0.00037	-0.00049
	54.25	0.07421	0.00682	-0.00458	0.00035	-0.00049

54.75 0.07315 0.00717 -0.00460 0.00033 -0.00052 55.25 0.07205 0.00640 -0.00452 0.00035 -0.00047 55.75 0.07133 0.00561 -0.00459 0.00035 -0.00047 56.25 0.07074 0.00598 -0.00470 0.00035 -0.00055 56.75 0.06875 0.00606 -0.00464 0.00033 -0.00055 57.25 0.06887 0.00606 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00602 -0.00452 0.00035 -0.00060 58.75 0.06602 0.00587 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00035 -0.00069 59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00455 0.00034 -0.00078 61.25 0.06278 0.00533 -0.00427 0.00034 -0.00078						
55.75 0.07133 0.00561 -0.00459 0.00037 -0.00047 56.25 0.07074 0.00598 -0.00470 0.00035 -0.00055 56.75 0.06975 0.00628 -0.00476 0.00036 -0.00055 57.25 0.06887 0.00606 -0.00464 0.00033 -0.00055 57.75 0.06698 0.00600 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00602 -0.00460 0.00035 -0.00062 58.75 0.06602 0.00587 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00034 -0.00072 60.25 0.06449 0.00538 -0.00435 0.00034 -0.00072 60.25 0.06449 0.00538 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00427 0.00031 -0.00078 61.75 0.06183 0.00531 -0.00447 0.00039 -0.00074	54.75	0.07315	0.00717	-0.00460	0.00033	-0.00052
56.25 0.07074 0.00598 -0.00470 0.00035 -0.00055 56.75 0.06975 0.00628 -0.00476 0.00036 -0.00055 57.25 0.06887 0.00606 -0.00464 0.00033 -0.00055 57.75 0.06788 0.00600 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00602 -0.00460 0.00035 -0.00060 58.75 0.06602 0.00592 -0.00460 0.00035 -0.00069 59.25 0.06521 0.00587 -0.00463 0.00034 -0.00069 59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00427 0.00031 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00427 0.00031 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00032 -0.00073	55.25	0.07205	0.00640	-0.00452	0.00035	-0.00047
56.75 0.06975 0.00628 -0.00476 0.00036 -0.00055 57.25 0.06887 0.00606 -0.00464 0.00033 -0.00055 57.75 0.06788 0.00600 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00692 -0.00460 0.0035 -0.00060 58.75 0.06602 0.00587 -0.00463 0.00035 -0.00069 59.25 0.06521 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06449 0.00537 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00427 0.00031 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00427 0.00031 -0.00072 61.75 0.06183 0.00447 -0.00434 0.00029 -0.00072 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073	55.75	0.07133	0.00561	-0.00459	0.00037	-0.00047
57.25 0.06887 0.00606 -0.00464 0.00033 -0.00055 57.75 0.06788 0.00600 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00602 -0.00452 0.00035 -0.00060 58.75 0.06602 0.00592 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00035 -0.00069 59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00439 0.00031 -0.00078 60.75 0.06278 0.00533 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00531 -0.00447 0.00030 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00072 61.75 0.06218 0.00474 -0.00433 0.00028 -0.00073 62.25 0.06218 0.00447 -0.00433 0.00028 -0.00074	56.25	0.07074	0.00598	-0.00470	0.00035	-0.00055
57.75 0.06788 0.00600 -0.00455 0.00035 -0.00060 58.25 0.06690 0.00602 -0.00452 0.00035 -0.00060 58.75 0.06602 0.00592 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00034 -0.00072 60.25 0.06449 0.00538 -0.00439 0.00034 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00434 0.00029 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05797 0.00570 -0.00426 0.00028 -0.00085 63.75 0.05789 0.00554 -0.00427 0.00025 -0.00077	56.75	0.06975	0.00628	-0.00476	0.00036	-0.00055
58.25 0.06690 0.00602 -0.00452 0.00035 -0.00060 58.75 0.06602 0.00592 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00035 -0.00069 59.75 0.06449 0.00538 -0.00439 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00427 0.00031 -0.00078 60.75 0.06411 0.00533 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00531 -0.00447 0.00030 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077	57.25	0.06887	0.00606	-0.00464	0.00033	-0.00055
58.75 0.06602 0.00592 -0.00460 0.00035 -0.00062 59.25 0.06521 0.00587 -0.00463 0.00035 -0.00069 59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00439 0.00034 -0.00078 60.75 0.06211 0.00533 -0.00427 0.00031 -0.00072 61.25 0.06278 0.00533 -0.00444 0.00030 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00421 0.00029 -0.00085 63.75 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00427 0.00025 -0.00098	57.75	0.06788	0.00600	-0.00455	0.00035	-0.00060
59.25 0.06521 0.00587 -0.00463 0.00035 -0.00069 59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00439 0.00034 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00447 0.00030 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00074 64.25 0.05780 0.00554 -0.00427 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096	58.25	0.06690	0.00602	-0.00452	0.00035	-0.00060
59.75 0.06449 0.00587 -0.00455 0.00034 -0.00072 60.25 0.06490 0.00538 -0.00439 0.00034 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00531 -0.00434 0.00029 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00074 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.24 0.05606 0.00480 -0.00416 0.00025 -0.00096	58.75	0.06602	0.00592	-0.00460	0.00035	-0.00062
60.25 0.06490 0.00538 -0.00439 0.00034 -0.00078 60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00434 0.00029 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00427 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05602 0.00480 -0.00414 0.00027 -0.00092	59.25	0.06521	0.00587	-0.00463	0.00035	-0.00069
60.75 0.06411 0.00553 -0.00427 0.00031 -0.00078 61.25 0.06278 0.00533 -0.00434 0.00029 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00382 0.00021 -0.00098	59.75	0.06449	0.00587	-0.00455	0.00034	-0.00072
61.25 0.06278 0.00533 -0.00434 0.00029 -0.00072 61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00382 0.00021 -0.00094 67.25 0.05543 0.00466 -0.00384 0.00023 -0.00094	60.25	0.06490	0.00538	-0.00439	0.00034	-0.00078
61.75 0.06183 0.00531 -0.00447 0.00030 -0.00074 62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00566 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092	60.75	0.06411	0.00553	-0.00427	0.00031	-0.00078
62.25 0.06218 0.00474 -0.00435 0.00028 -0.00073 62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092	61.25	0.06278	0.00533	-0.00434	0.00029	-0.00072
62.75 0.06154 0.00498 -0.00433 0.00028 -0.00074 63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 67.25 0.05357 0.00506 -0.00382 0.00021 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00449 -0.00398 0.00018 -0.00092 68.75 0.05062 0.00469 -0.00398 0.00018 -0.00104	61.75	0.06183	0.00531	-0.00447	0.00030	-0.00074
63.25 0.05940 0.00570 -0.00431 0.00029 -0.00085 63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05062 0.00469 -0.00396 0.00022 -0.00104	62.25	0.06218	0.00474	-0.00435	0.00028	-0.00073
63.75 0.05797 0.00579 -0.00426 0.00028 -0.00084 64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05062 0.00469 -0.00407 0.00023 -0.00105	62.75	0.06154	0.00498	-0.00433	0.00028	-0.00074
64.25 0.05780 0.00554 -0.00427 0.00025 -0.00077 64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105	63.25	0.05940	0.00570	-0.00431	0.00029	-0.00085
64.75 0.05789 0.00562 -0.00422 0.00022 -0.00083 65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05062 0.00469 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00019 -0.00100	63.75	0.05797	0.00579	-0.00426	0.00028	-0.00084
65.25 0.05734 0.00527 -0.00416 0.00025 -0.00096 65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00108	64.25	0.05780	0.00554	-0.00427	0.00025	-0.00077
65.74 0.05606 0.00480 -0.00414 0.00027 -0.00092 66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00109 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00108 72.25 0.04481 0.00440 -0.00409 0.00018 -0.00108	64.75	0.05789	0.00562	-0.00422	0.00022	-0.00083
66.24 0.05602 0.00457 -0.00397 0.00022 -0.00094 66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	65.25	0.05734	0.00527	-0.00416	0.00025	-0.00096
66.75 0.05543 0.00486 -0.00382 0.00021 -0.00098 67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04569 0.00489 -0.00402 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	65.74	0.05606	0.00480	-0.00414	0.00027	-0.00092
67.25 0.05357 0.00506 -0.00384 0.00023 -0.00094 67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	66.24	0.05602	0.00457	-0.00397	0.00022	-0.00094
67.75 0.05287 0.00443 -0.00394 0.00023 -0.00092 68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	66.75	0.05543	0.00486	-0.00382	0.00021	-0.00098
68.25 0.05179 0.00479 -0.00400 0.00020 -0.00092 68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	67.25	0.05357	0.00506	-0.00384	0.00023	-0.00094
68.75 0.05012 0.00565 -0.00398 0.00018 -0.00096 69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	67.75	0.05287	0.00443	-0.00394	0.00023	-0.00092
69.25 0.05062 0.00469 -0.00396 0.00022 -0.00104 69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	68.25	0.05179	0.00479	-0.00400	0.00020	-0.00092
69.75 0.05041 0.00376 -0.00407 0.00023 -0.00105 70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	68.75	0.05012	0.00565	-0.00398	0.00018	-0.00096
70.25 0.04792 0.00445 -0.00424 0.00021 -0.00098 70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	69.25	0.05062	0.00469	-0.00396	0.00022	-0.00104
70.75 0.04674 0.00500 -0.00417 0.00019 -0.00100 71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	69.75	0.05041	0.00376	-0.00407	0.00023	-0.00105
71.25 0.04598 0.00489 -0.00402 0.00019 -0.00107 71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	70.25	0.04792	0.00445	-0.00424	0.00021	-0.00098
71.75 0.04569 0.00440 -0.00409 0.00018 -0.00108 72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	70.75	0.04674	0.00500	-0.00417	0.00019	-0.00100
72.25 0.04481 0.00441 -0.00426 0.00018 -0.00108	71.25	0.04598	0.00489	-0.00402	0.00019	-0.00107
	71.75	0.04569	0.00440	-0.00409	0.00018	-0.00108
72.75 0.04303 0.00465 -0.00429 0.00018 -0.00102	72.25	0.04481	0.00441	-0.00426	0.00018	-0.00108
	72.75	0.04303	0.00465	-0.00429	0.00018	-0.00102

73.25	0.04152	0.00458	-0.00423	0.00019	-0.00099
73.75	0.03971	0.00498	-0.00419	0.00019	-0.00102
74.25	0.03888	0.00471	-0.00431	0.00019	-0.00096
74.75	0.03787	0.00482	-0.00430	0.00018	-0.00092
75.25	0.03637	0.00484	-0.00424	0.00019	-0.00090
75.75	0.03503	0.00477	-0.00431	0.00019	-0.00082
76.25	0.03343	0.00486	-0.00430	0.00018	-0.00077
76.75	0.03201	0.00482	-0.00433	0.00020	-0.00069
77.25	0.02949	0.00539	-0.00450	0.00023	-0.00058
77.75	0.02671	0.00609	-0.00453	0.00026	-0.00047
78.25	0.02592	0.00589	-0.00446	0.00023	-0.00037
78.75	0.02423	0.00599	-0.00456	0.00022	-0.00027
79.25	0.02317	0.00532	-0.00451	0.00024	-0.00018
79.75	0.02167	0.00555	-0.00440	0.00024	-0.00014
80.25	0.01946	0.00642	-0.00444	0.00022	-0.00013
80.75	0.01785	0.00682	-0.00445	0.00021	-0.00009
81.25	0.01623	0.00680	-0.00452	0.00021	-0.00001
81.75	0.01575	0.00641	-0.00440	0.00020	-0.00004
82.25	0.01375	0.00643	-0.00432	0.00021	-0.00003
82.75	0.01179	0.00701	-0.00439	0.00018	0.00003
83.25	0.01076	0.00716	-0.00418	0.00014	-0.00003
83.75	0.00878	0.00738	-0.00415	0.00014	-0.00003
84.26	0.00835	0.00714	-0.00418	0.00013	0.00002
84.75	0.00835	0.00642	-0.00408	0.00014	0.00001
85.25	0.00566	0.00733	-0.00405	0.00014	0.00006
85.75	0.00526	0.00732	-0.00408	0.00013	0.00003
86.25	0.00330	0.00776	-0.00402	0.00012	0.00006
86.76	0.00324	0.00691	-0.00394	0.00014	0.00007
87.25	0.00210	0.00688	-0.00394	0.00013	0.00010
87.76	0.00108	0.00767	-0.00376	0.00008	0.00012
88.25	0.00024	0.00761	-0.00381	0.00009	0.00016
88.75	-0.00016	0.00725	-0.00373	0.00009	0.00019
89.26	-0.00100	0.00705	-0.00366	0.00011	0.00019
89.73	-0.00187	0.00699	-0.00356	0.00010	0.00023

Table 42. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ,\ \dot{\varphi}=3$ °/sec

		DYNAMIC	ROLL $\phi = 0^{\circ}$ -9	00°	
φ (°)	C_{N}	C_{M}	C_{S}	C_{YM}	C_{RM}
0.22	-0.00586	0.00175	0.00030	-0.00015	0.00014
0.74	-0.00665	0.00203	0.00054	-0.00014	0.00010
1.24	-0.00593	0.00166	0.00084	-0.00017	0.00002
1.74	-0.00579	0.00131	0.00092	-0.00015	-0.00011
2.25	-0.00545	0.00145	0.00090	-0.00014	-0.00015
2.74	-0.00529	0.00168	0.00081	-0.00013	-0.00017
3.24	-0.00587	0.00180	0.00085	-0.00015	-0.00017
3.74	-0.00644	0.00194	0.00084	-0.00015	-0.00020
4.25	-0.00673	0.00222	0.00076	-0.00013	-0.00021
4.75	-0.00635	0.00221	0.00078	-0.00013	-0.00024
5.25	-0.00575	0.00194	0.00083	-0.00013	-0.00027
5.75	-0.00541	0.00167	0.00079	-0.00012	-0.00030
6.25	-0.00557	0.00167	0.00071	-0.00010	-0.00034
6.75	-0.00541	0.00160	0.00067	-0.00009	-0.00036
7.25	-0.00560	0.00192	0.00069	-0.00010	-0.00035
7.75	-0.00591	0.00227	0.00072	-0.00011	-0.00036
8.25	-0.00617	0.00240	0.00071	-0.00011	-0.00039
8.75	-0.00624	0.00236	0.00073	-0.00012	-0.00040
9.25	-0.00599	0.00210	0.00073	-0.00011	-0.00040
9.75	-0.00580	0.00189	0.00070	-0.00010	-0.00041
10.25	-0.00558	0.00174	0.00063	-0.00009	-0.00042
10.74	-0.00520	0.00155	0.00058	-0.00007	-0.00045
11.25	-0.00507	0.00153	0.00056	-0.00007	-0.00050
11.75	-0.00506	0.00160	0.00061	-0.00007	-0.00053
12.25	-0.00522	0.00181	0.00065	-0.00008	-0.00053
12.75	-0.00542	0.00190	0.00064	-0.00008	-0.00052
13.25	-0.00537	0.00202	0.00064	-0.00009	-0.00050
13.75	-0.00553	0.00213	0.00056	-0.00009	-0.00049
14.25	-0.00538	0.00204	0.00051	-0.00009	-0.00050
14.75	-0.00546	0.00197	0.00046	-0.00008	-0.00051
15.25	-0.00560	0.00194	0.00044	-0.00007	-0.00052
15.75	-0.00580	0.00200	0.00046	-0.00007	-0.00051
16.25	-0.00617	0.00216	0.00055	-0.00007	-0.00051
16.75	-0.00614	0.00228	0.00055	-0.00007	-0.00051
17.25	-0.00585	0.00224	0.00055	-0.00007	-0.00052

17.75	-0.00552	0.00217	0.00052	-0.00007	-0.00053
18.25	-0.00512	0.00189	0.00049	-0.00006	-0.00054
18.75	-0.00528	0.00183	0.00044	-0.00005	-0.00056
19.25	-0.00553	0.00173	0.00044	-0.00005	-0.00056
19.75	-0.00565	0.00171	0.00043	-0.00004	-0.00056
20.25	-0.00616	0.00189	0.00044	-0.00005	-0.00055
20.75	-0.00619	0.00195	0.00044	-0.00006	-0.00053
21.25	-0.00595	0.00181	0.00046	-0.00006	-0.00053
21.75	-0.00586	0.00187	0.00045	-0.00007	-0.00052
22.25	-0.00565	0.00191	0.00044	-0.00006	-0.00053
22.75	-0.00567	0.00214	0.00046	-0.00005	-0.00055
23.25	-0.00556	0.00229	0.00043	-0.00005	-0.00055
23.75	-0.00525	0.00234	0.00039	-0.00005	-0.00055
24.25	-0.00487	0.00218	0.00035	-0.00006	-0.00054
24.75	-0.00480	0.00201	0.00026	-0.00004	-0.00054
25.25	-0.00500	0.00187	0.00021	-0.00003	-0.00055
25.75	-0.00554	0.00212	0.00021	-0.00003	-0.00055
26.25	-0.00579	0.00237	0.00023	-0.00003	-0.00055
26.75	-0.00570	0.00254	0.00026	-0.00004	-0.00054
27.25	-0.00531	0.00263	0.00027	-0.00004	-0.00053
27.75	-0.00465	0.00245	0.00030	-0.00006	-0.00052
28.25	-0.00423	0.00215	0.00026	-0.00005	-0.00053
28.75	-0.00391	0.00186	0.00022	-0.00004	-0.00056
29.25	-0.00398	0.00158	0.00017	-0.00002	-0.00058
29.75	-0.00448	0.00176	0.00010	-0.00001	-0.00059
30.25	-0.00494	0.00208	0.00002	-0.00001	-0.00059
30.75	-0.00499	0.00221	0.00001	0.00000	-0.00059
31.25	-0.00503	0.00237	0.00004	-0.00001	-0.00058
31.75	-0.00445	0.00221	0.00008	-0.00001	-0.00057
32.25	-0.00375	0.00191	0.00013	-0.00001	-0.00058
32.75	-0.00337	0.00176	0.00017	-0.00002	-0.00058
33.25	-0.00309	0.00182	0.00020	-0.00003	-0.00057
33.75	-0.00346	0.00210	0.00018	-0.00004	-0.00056
34.25	-0.00388	0.00231	0.00016	-0.00004	-0.00056
34.75	-0.00409	0.00241	0.00011	-0.00004	-0.00058
35.25	-0.00409	0.00238	0.00005	-0.00002	-0.00060
35.75	-0.00393	0.00228	0.00001	-0.00001	-0.00061

36.25 -0.00319 0.00191 0.00002 0.00000 -0.00062 36.75 -0.00282 0.00171 0.00010 -0.00001 -0.00061 37.25 -0.00259 0.00167 0.00023 -0.00003 -0.00060 37.75 -0.00321 0.00167 0.00033 -0.00003 -0.00058 38.25 -0.00370 0.00232 0.00029 -0.00004 -0.00057 39.25 -0.00374 0.00237 0.00015 -0.00004 -0.00056 39.75 -0.00342 0.00237 0.00015 -0.00004 -0.00056 40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.0028 0.00183 0.00025 -0.00003 -0.00058 41.24 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00055 -0.00003 -0.00057 42.25 -0.00196 0.00182 0.00062 -0.0006 -0.00056 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th></tr<>						
37.25 -0.00259 0.00156 0.00023 -0.00002 -0.00060 37.75 -0.00271 0.00167 0.00032 -0.00003 -0.00060 38.25 -0.00322 0.00195 0.00033 -0.00004 -0.00057 38.75 -0.00370 0.00232 0.00029 -0.00004 -0.00057 39.25 -0.00342 0.00237 0.00015 -0.00004 -0.00056 39.75 -0.00241 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.74 -0.00169 0.00183 0.00025 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00003 -0.00059 42.75 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.75 -0.00264 0.00243 0.00049 -0.00005 -0.00057	36.25	-0.00319	0.00191	0.00002	0.00000	-0.00062
37.75 -0.00271 0.00167 0.00032 -0.00003 -0.00060 38.25 -0.00322 0.00195 0.00033 -0.00003 -0.00058 38.75 -0.00370 0.00232 0.00029 -0.00004 -0.00057 39.25 -0.00342 0.00237 0.00015 -0.00004 -0.00056 39.75 -0.00273 0.00206 0.00012 -0.00004 -0.00055 40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.24 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00005 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00326 0.00243 0.00049 -0.00005 -0.00057	36.75	-0.00282	0.00171	0.00010	-0.00001	-0.00061
38.25 -0.00322 0.00195 0.00033 -0.00003 -0.00058 38.75 -0.00370 0.00232 0.00029 -0.00004 -0.00057 39.25 -0.00374 0.00237 0.00015 -0.00004 -0.00056 39.75 -0.00242 0.00237 0.00015 -0.00004 -0.00055 40.25 -0.00241 0.00194 0.00015 -0.00003 -0.00056 40.75 -0.0028 0.00183 0.00025 -0.00003 -0.00059 41.24 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00005 -0.00059 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00182 0.00062 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00006 -0.00057 <	37.25	-0.00259	0.00156	0.00023	-0.00002	-0.00060
38.75 -0.00370 0.00232 0.00029 -0.00004 -0.00057 39.25 -0.00374 0.00243 0.00022 -0.00004 -0.00056 39.75 -0.00342 0.00237 0.00015 -0.00004 -0.00055 40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00005 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00188 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00006 -0.00059	37.75	-0.00271	0.00167	0.00032	-0.00003	-0.00060
39.25 -0.00374 0.00243 0.00022 -0.00004 -0.00056 39.75 -0.00342 0.00237 0.00015 -0.00004 -0.00055 40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.75 -0.00217 0.00188 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00006 -0.00058 45.24 -0.00320 0.00248 0.00053 -0.00006 -0.00059	38.25	-0.00322	0.00195	0.00033	-0.00003	-0.00058
39.75 -0.00342 0.00237 0.00015 -0.00004 -0.00055 40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00006 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057	38.75	-0.00370	0.00232	0.00029	-0.00004	-0.00057
40.25 -0.00273 0.00206 0.00012 -0.00004 -0.00056 40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00055 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.74 -0.00330 0.00238 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00248 0.00057 -0.00006 -0.00055	39.25	-0.00374	0.00243	0.00022	-0.00004	-0.00056
40.75 -0.00241 0.00194 0.00015 -0.00003 -0.00058 41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00196 0.00182 0.00061 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00057 -0.00006 -0.00059 45.75 -0.00267 0.00246 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00248 0.00037 -0.00006 -0.00055	39.75	-0.00342	0.00237	0.00015	-0.00004	-0.00055
41.25 -0.00208 0.00183 0.00025 -0.00003 -0.00059 41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00006 -0.00057 42.75 -0.00217 0.00182 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00006 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 47.75 -0.00172 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00248 0.00037 -0.00005 -0.00056	40.25	-0.00273	0.00206	0.00012	-0.00004	-0.00056
41.74 -0.00169 0.00154 0.00041 -0.00003 -0.00059 42.25 -0.00168 0.00162 0.00055 -0.00005 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00006 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00006 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00248 0.00057 -0.00006 -0.00056 47.25 -0.00172 0.00248 0.00037 -0.00006 -0.00055 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057	40.75	-0.00241	0.00194	0.00015	-0.00003	-0.00058
42.25 -0.00168 0.00162 0.00055 -0.00005 -0.00057 42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00005 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00172 0.00248 0.00037 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057	41.25	-0.00208	0.00183	0.00025	-0.00003	-0.00059
42.75 -0.00196 0.00182 0.00062 -0.00006 -0.00056 43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00005 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00172 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059	41.74	-0.00169	0.00154	0.00041	-0.00003	-0.00059
43.25 -0.00217 0.00198 0.00061 -0.00006 -0.00056 43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00006 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00006 -0.00057 48.25 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 49.25 -0.00156 0.00247 0.00023 -0.00004 -0.00059	42.25	-0.00168	0.00162	0.00055	-0.00005	-0.00057
43.75 -0.00264 0.00226 0.00053 -0.00005 -0.00057 44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00057 -0.00006 -0.00057 45.75 -0.00267 0.00248 0.00057 -0.00006 -0.00056 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00023 -0.00004 -0.00059 49.25 -0.00213 0.00244 0.00028 -0.00004 -0.00059	42.75	-0.00196	0.00182	0.00062	-0.00006	-0.00056
44.25 -0.00306 0.00243 0.00049 -0.00005 -0.00058 44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00006 -0.00057 45.75 -0.00267 0.00248 0.00057 -0.00006 -0.00056 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00202 0.00247 0.00024 -0.00004 -0.00059 49.75 -0.00202 0.00254 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059	43.25	-0.00217	0.00198	0.00061	-0.00006	-0.00056
44.75 -0.00327 0.00247 0.00049 -0.00006 -0.00059 45.24 -0.00330 0.00238 0.00053 -0.00005 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 49.25 -0.00202 0.00247 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059	43.75	-0.00264	0.00226	0.00053	-0.00005	-0.00057
45.24 -0.00330 0.00238 0.00053 -0.00005 -0.00059 45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 50.25 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.75 -0.00227 0.00238 0.00011 -0.00003 -0.00059 51.25 -0.00190 0.00228 0.00011 -0.00002 -0.00057	44.25	-0.00306	0.00243	0.00049	-0.00005	-0.00058
45.75 -0.00320 0.00248 0.00057 -0.00006 -0.00057 46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00157 0.00228 0.00011 -0.00002 -0.00057	44.75	-0.00327	0.00247	0.00049	-0.00006	-0.00059
46.25 -0.00267 0.00246 0.00057 -0.00006 -0.00056 46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057	45.24	-0.00330	0.00238	0.00053	-0.00005	-0.00059
46.75 -0.00224 0.00248 0.00048 -0.00006 -0.00055 47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00157 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00132 0.00220 0.00010 0.00000 -0.00061 <	45.75	-0.00320	0.00248	0.00057	-0.00006	-0.00057
47.25 -0.00172 0.00246 0.00037 -0.00005 -0.00056 47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 <t< td=""><td>46.25</td><td>-0.00267</td><td>0.00246</td><td>0.00057</td><td>-0.00006</td><td>-0.00056</td></t<>	46.25	-0.00267	0.00246	0.00057	-0.00006	-0.00056
47.75 -0.00148 0.00248 0.00028 -0.00005 -0.00057 48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063 <td>46.75</td> <td>-0.00224</td> <td>0.00248</td> <td>0.00048</td> <td>-0.00006</td> <td>-0.00055</td>	46.75	-0.00224	0.00248	0.00048	-0.00006	-0.00055
48.25 -0.00139 0.00247 0.00021 -0.00004 -0.00059 48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	47.25	-0.00172	0.00246	0.00037	-0.00005	-0.00056
48.75 -0.00156 0.00247 0.00024 -0.00004 -0.00059 49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	47.75	-0.00148	0.00248	0.00028	-0.00005	-0.00057
49.25 -0.00202 0.00254 0.00023 -0.00004 -0.00059 49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	48.25	-0.00139	0.00247	0.00021	-0.00004	-0.00059
49.75 -0.00213 0.00242 0.00028 -0.00004 -0.00059 50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00061 53.25 -0.00137 0.00241 0.00009 0.00001 -0.00063 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	48.75	-0.00156	0.00247	0.00024	-0.00004	-0.00059
50.25 -0.00227 0.00232 0.00026 -0.00004 -0.00059 50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	49.25	-0.00202	0.00254	0.00023	-0.00004	-0.00059
50.75 -0.00248 0.00245 0.00021 -0.00003 -0.00059 51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	49.75	-0.00213	0.00242	0.00028	-0.00004	-0.00059
51.25 -0.00221 0.00238 0.00013 -0.00002 -0.00058 51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	50.25	-0.00227	0.00232	0.00026	-0.00004	-0.00059
51.75 -0.00190 0.00228 0.00011 -0.00002 -0.00057 52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	50.75	-0.00248	0.00245	0.00021	-0.00003	-0.00059
52.25 -0.00157 0.00222 0.00008 -0.00001 -0.00057 52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	51.25	-0.00221	0.00238	0.00013	-0.00002	-0.00058
52.75 -0.00132 0.00220 0.00010 0.00000 -0.00058 53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	51.75	-0.00190	0.00228	0.00011	-0.00002	-0.00057
53.25 -0.00137 0.00241 0.00009 0.00000 -0.00061 53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	52.25	-0.00157	0.00222	0.00008	-0.00001	-0.00057
53.75 -0.00099 0.00240 0.00010 0.00001 -0.00063	52.75	-0.00132	0.00220	0.00010	0.00000	-0.00058
	53.25	-0.00137	0.00241	0.00009	0.0000	-0.00061
54.25 -0.00076 0.00234 0.00006 0.00001 -0.00064	53.75	-0.00099	0.00240	0.00010	0.00001	-0.00063
	54.25	-0.00076	0.00234	0.00006	0.00001	-0.00064

54.75	-0.00030	0.00212	0.00003	0.00001	-0.00064
55.25	-0.00015	0.00200	-0.00003	0.00001	-0.00062
55.75	-0.00028	0.00205	-0.00012	0.00000	-0.00060
56.25	-0.00033	0.00220	-0.00014	0.00000	-0.00059
56.75	-0.00038	0.00225	-0.00011	0.00000	-0.00059
57.25	-0.00035	0.00231	-0.00005	-0.00001	-0.00057
57.75	-0.00025	0.00237	0.00001	-0.00002	-0.00055
58.25	0.00010	0.00233	0.00003	-0.00002	-0.00055
58.75	0.00082	0.00212	0.00004	-0.00002	-0.00056
59.25	0.00181	0.00168	0.00006	-0.00002	-0.00060
59.75	0.00237	0.00146	0.00007	-0.00002	-0.00061
60.25	0.00217	0.00160	0.00011	-0.00003	-0.00061
60.75	0.00120	0.00208	0.00010	-0.00004	-0.00058
61.25	0.00022	0.00266	0.00009	-0.00004	-0.00056
61.75	-0.00035	0.00297	0.00009	-0.00004	-0.00055
62.25	-0.00037	0.00304	0.00007	-0.00004	-0.00055
62.75	0.00041	0.00262	0.00011	-0.00004	-0.00057
63.25	0.00110	0.00229	0.00017	-0.00003	-0.00057
63.75	0.00163	0.00207	0.00019	-0.00002	-0.00058
64.25	0.00203	0.00210	0.00023	-0.00002	-0.00059
64.75	0.00187	0.00233	0.00029	-0.00003	-0.00060
65.25	0.00167	0.00244	0.00035	-0.00003	-0.00061
65.75	0.00096	0.00270	0.00044	-0.00005	-0.00059
66.25	0.00049	0.00296	0.00050	-0.00006	-0.00056
66.75	0.00028	0.00298	0.00053	-0.00007	-0.00053
67.25	0.00042	0.00293	0.00049	-0.00006	-0.00053
67.75	0.00101	0.00256	0.00045	-0.00005	-0.00056
68.25	0.00144	0.00242	0.00045	-0.00004	-0.00059
68.75	0.00181	0.00237	0.00045	-0.00003	-0.00061
69.25	0.00191	0.00243	0.00047	-0.00004	-0.00061
69.75	0.00170	0.00261	0.00043	-0.00004	-0.00059
70.25	0.00167	0.00263	0.00041	-0.00004	-0.00057
70.75	0.00159	0.00257	0.00028	-0.00004	-0.00057
71.25	0.00170	0.00253	0.00017	-0.00004	-0.00057
71.75	0.00144	0.00257	0.00005	-0.00004	-0.00058
72.25	0.00118	0.00285	-0.00002	-0.00004	-0.00058
72.75	0.00124	0.00292	-0.00005	-0.00004	-0.00056

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73.25	0.00194	0.00278	-0.00007	-0.00003	-0.00055
73.75	0.00251	0.00272	-0.00007	-0.00002	-0.00055
74.25	0.00338	0.00257	-0.00007	-0.00002	-0.00057
74.75	0.00358	0.00260	-0.00007	-0.00002	-0.00059
75.25	0.00342	0.00274	-0.00008	-0.00001	-0.00059
75.75	0.00321	0.00266	-0.00008	-0.00001	-0.00058
76.25	0.00287	0.00261	-0.00009	-0.00001	-0.00055
76.75	0.00272	0.00249	-0.00012	-0.00001	-0.00053
77.25	0.00290	0.00231	-0.00018	0.00000	-0.00054
77.75	0.00324	0.00232	-0.00028	0.00001	-0.00055
78.25	0.00318	0.00264	-0.00030	0.00001	-0.00055
78.75	0.00348	0.00283	-0.00028	0.00000	-0.00052
79.25	0.00342	0.00303	-0.00020	-0.00001	-0.00048
79.75	0.00370	0.00287	-0.00013	-0.00002	-0.00046
80.25	0.00388	0.00271	-0.00012	-0.00002	-0.00046
80.75	0.00375	0.00268	-0.00011	-0.00002	-0.00046
81.25	0.00329	0.00288	-0.00011	-0.00002	-0.00044
81.75	0.00280	0.00307	-0.00011	-0.00002	-0.00041
82.25	0.00256	0.00329	-0.00017	-0.00002	-0.00036
82.75	0.00288	0.00343	-0.00024	-0.00003	-0.00034
83.25	0.00374	0.00319	-0.00030	-0.00003	-0.00036
83.75	0.00457	0.00276	-0.00020	-0.00002	-0.00037
84.25	0.00463	0.00270	-0.00007	-0.00002	-0.00035
84.75	0.00416	0.00302	-0.00002	-0.00004	-0.00032
85.25	0.00364	0.00315	-0.00001	-0.00004	-0.00029
85.75	0.00328	0.00321	0.00000	-0.00004	-0.00026
86.25	0.00363	0.00330	0.00000	-0.00004	-0.00026
86.76	0.00477	0.00308	0.00005	-0.00005	-0.00024
87.25	0.00474	0.00299	0.00021	-0.00007	-0.00021
87.76	0.00417	0.00305	0.00023	-0.00006	-0.00013
88.26	0.00548	0.00272	0.00018	-0.00005	-0.00012
88.76	0.00579	0.00290	0.00017	-0.00006	-0.00011
89.27	0.00511	0.00280	0.00036	-0.00007	-0.00004
89.71	0.00465	0.00334	0.00033	-0.00006	0.00002

Table 43. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=0^\circ,\ \dot{\varphi}=7\ ^\circ\!/sec$

	DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$						
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}		
0.22	0.02178	0.00345	-0.00224	0.00058	0.00007		
0.73	0.02189	0.00368	-0.00175	0.00049	0.00006		
1.24	0.02106	0.00383	-0.00146	0.00049	-0.00003		
1.74	0.02111	0.00378	-0.00133	0.00048	-0.00015		
2.25	0.02126	0.00381	-0.00137	0.00048	-0.00016		
2.74	0.02198	0.00363	-0.00138	0.00048	-0.00017		
3.25	0.02271	0.00305	-0.00126	0.00049	-0.00017		
3.75	0.02240	0.00320	-0.00131	0.00050	-0.00017		
4.25	0.02168	0.00365	-0.00145	0.00051	-0.00018		
4.75	0.02161	0.00372	-0.00144	0.00051	-0.00022		
5.25	0.02222	0.00344	-0.00140	0.00050	-0.00028		
5.74	0.02254	0.00332	-0.00141	0.00050	-0.00030		
6.25	0.02200	0.00370	-0.00144	0.00052	-0.00034		
6.75	0.02155	0.00396	-0.00139	0.00051	-0.00034		
7.25	0.02172	0.00383	-0.00149	0.00053	-0.00034		
7.75	0.02197	0.00369	-0.00147	0.00050	-0.00035		
8.25	0.02162	0.00388	-0.00154	0.00051	-0.00038		
8.75	0.02118	0.00393	-0.00153	0.00051	-0.00042		
9.25	0.02127	0.00382	-0.00148	0.00053	-0.00044		
9.75	0.02223	0.00335	-0.00138	0.00052	-0.00046		
10.25	0.02343	0.00298	-0.00141	0.00053	-0.00048		
10.74	0.02418	0.00278	-0.00144	0.00051	-0.00051		
11.25	0.02428	0.00284	-0.00152	0.00050	-0.00056		
11.75	0.02393	0.00297	-0.00162	0.00052	-0.00059		
12.25	0.02342	0.00318	-0.00162	0.00051	-0.00061		
12.75	0.02291	0.00319	-0.00159	0.00051	-0.00062		
13.25	0.02273	0.00317	-0.00163	0.00054	-0.00066		
13.75	0.02271	0.00302	-0.00157	0.00053	-0.00071		
14.25	0.02281	0.00296	-0.00153	0.00053	-0.00074		
14.75	0.02262	0.00309	-0.00154	0.00053	-0.00075		
15.25	0.02225	0.00331	-0.00155	0.00052	-0.00072		
15.75	0.02216	0.00342	-0.00167	0.00054	-0.00070		
16.25	0.02200	0.00354	-0.00169	0.00054	-0.00068		
16.75	0.02206	0.00366	-0.00173	0.00053	-0.00069		
17.25	0.02239	0.00354	-0.00176	0.00054	-0.00071		

17.75	0.02275	0.00328	-0.00181	0.00056	-0.00073
18.25	0.02324	0.00276	-0.00180	0.00056	-0.00074
18.75	0.02312	0.00266	-0.00176	0.00056	-0.00075
19.25	0.02263	0.00278	-0.00170	0.00056	-0.00073
19.75	0.02230	0.00276	-0.00167	0.00057	-0.00072
20.25	0.02199	0.00286	-0.00166	0.00057	-0.00072
20.75	0.02192	0.00297	-0.00168	0.00055	-0.00071
21.25	0.02171	0.00323	-0.00179	0.00056	-0.00071
21.75	0.02168	0.00332	-0.00191	0.00057	-0.00070
22.25	0.02154	0.00340	-0.00188	0.00055	-0.00069
22.75	0.02151	0.00336	-0.00187	0.00055	-0.00071
23.25	0.02142	0.00337	-0.00182	0.00055	-0.00072
23.75	0.02170	0.00320	-0.00188	0.00057	-0.00073
24.25	0.02201	0.00295	-0.00183	0.00057	-0.00073
24.75	0.02212	0.00285	-0.00185	0.00059	-0.00071
25.25	0.02231	0.00273	-0.00195	0.00062	-0.00070
25.75	0.02238	0.00277	-0.00195	0.00060	-0.00069
26.25	0.02240	0.00274	-0.00194	0.00057	-0.00070
26.75	0.02251	0.00278	-0.00200	0.00055	-0.00072
27.25	0.02271	0.00262	-0.00204	0.00056	-0.00075
27.75	0.02268	0.00251	-0.00208	0.00055	-0.00077
28.25	0.02258	0.00258	-0.00210	0.00056	-0.00077
28.75	0.02214	0.00284	-0.00223	0.00060	-0.00076
29.25	0.02164	0.00317	-0.00223	0.00063	-0.00073
29.75	0.02168	0.00314	-0.00212	0.00061	-0.00069
30.25	0.02151	0.00315	-0.00209	0.00059	-0.00066
30.75	0.02169	0.00302	-0.00213	0.00059	-0.00066
31.25	0.02151	0.00289	-0.00227	0.00062	-0.00068
31.75	0.02109	0.00298	-0.00221	0.00058	-0.00071
32.25	0.02090	0.00313	-0.00236	0.00061	-0.00072
32.75	0.02079	0.00317	-0.00240	0.00062	-0.00072
33.25	0.02079	0.00319	-0.00236	0.00061	-0.00070
33.75	0.02067	0.00334	-0.00229	0.00060	-0.00066
34.25	0.02065	0.00325	-0.00227	0.00063	-0.00063
34.75	0.02045	0.00327	-0.00228	0.00065	-0.00061
35.25	0.02029	0.00316	-0.00221	0.00064	-0.00060
35.75	0.01992	0.00321	-0.00227	0.00064	-0.00060

36.25	0.01959	0.00322	-0.00237	0.00065	-0.00060
36.75	0.01932	0.00325	-0.00251	0.00067	-0.00061
37.25	0.01929	0.00321	-0.00243	0.00063	-0.00062
37.75	0.01918	0.00317	-0.00244	0.00064	-0.00061
38.25	0.01911	0.00313	-0.00234	0.00064	-0.00061
38.75	0.01912	0.00322	-0.00228	0.00065	-0.00060
39.25	0.01905	0.00325	-0.00219	0.00065	-0.00060
39.75	0.01923	0.00329	-0.00220	0.00065	-0.00060
40.25	0.01927	0.00323	-0.00226	0.00067	-0.00060
40.75	0.01907	0.00334	-0.00221	0.00064	-0.00060
41.25	0.01842	0.00357	-0.00215	0.00062	-0.00058
41.75	0.01793	0.00366	-0.00217	0.00063	-0.00056
42.25	0.01727	0.00387	-0.00216	0.00063	-0.00054
42.75	0.01745	0.00373	-0.00221	0.00065	-0.00052
43.25	0.01761	0.00359	-0.00214	0.00062	-0.00053
43.75	0.01760	0.00356	-0.00214	0.00063	-0.00054
44.25	0.01759	0.00356	-0.00214	0.00063	-0.00056
44.75	0.01765	0.00345	-0.00205	0.00062	-0.00055
45.25	0.01778	0.00334	-0.00204	0.00064	-0.00055
45.75	0.01783	0.00312	-0.00210	0.00066	-0.00053
46.25	0.01769	0.00306	-0.00220	0.00068	-0.00052
46.75	0.01733	0.00328	-0.00227	0.00068	-0.00052
47.25	0.01690	0.00350	-0.00231	0.00067	-0.00053
47.75	0.01663	0.00374	-0.00243	0.00068	-0.00054
48.25	0.01647	0.00390	-0.00252	0.00067	-0.00054
48.75	0.01654	0.00386	-0.00249	0.00065	-0.00053
49.25	0.01662	0.00370	-0.00251	0.00066	-0.00052
49.75	0.01626	0.00369	-0.00246	0.00066	-0.00052
50.25	0.01634	0.00356	-0.00239	0.00065	-0.00052
50.75	0.01622	0.00358	-0.00236	0.00064	-0.00051
51.25	0.01619	0.00341	-0.00242	0.00066	-0.00049
51.75	0.01634	0.00335	-0.00255	0.00067	-0.00049
52.25	0.01646	0.00317	-0.00262	0.00067	-0.00050
52.75	0.01652	0.00309	-0.00264	0.00067	-0.00052
53.25	0.01620	0.00315	-0.00267	0.00067	-0.00054
53.75	0.01589	0.00310	-0.00274	0.00070	-0.00055
54.25	0.01551	0.00319	-0.00267	0.00067	-0.00055

54.75 0.01540 0.00326 -0.00282 0.00070 -0.00054 55.25 0.01568 0.00326 -0.00282 0.00070 -0.00054 55.75 0.01619 0.00296 -0.00271 0.00067 -0.00055 56.75 0.01568 0.00307 -0.00269 0.00068 -0.00055 57.25 0.01499 0.00333 -0.00271 0.00069 -0.00054 57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00271 0.00067 -0.00053 58.75 0.01282 0.00430 -0.00274 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 60.25 0.01359 0.00355 -0.00266 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00268 0.00068 -0.00056						
55.75 0.01601 0.00313 -0.00282 0.00070 -0.00054 56.25 0.01619 0.00296 -0.00271 0.00067 -0.00055 56.75 0.01568 0.00307 -0.00269 0.00068 -0.00055 57.25 0.01499 0.00333 -0.00271 0.00069 -0.00053 57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00271 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00274 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 60.25 0.01339 0.00355 -0.00266 0.00068 -0.00056 60.25 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.0068 -0.00056 61.75 0.01447 0.00327 -0.00268 0.00068 -0.00056	54.75	0.01540	0.00326	-0.00282	0.00070	-0.00054
56.25 0.01619 0.00296 -0.00271 0.00067 -0.00055 56.75 0.01568 0.00307 -0.00269 0.00068 -0.00055 57.25 0.01499 0.00333 -0.00271 0.00069 -0.00054 57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00274 0.00068 -0.00054 59.25 0.01229 0.00404 -0.00277 0.00071 -0.0056 59.75 0.01323 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056	55.25	0.01568	0.00326	-0.00282	0.00070	-0.00054
56.75 0.01568 0.00307 -0.00269 0.00068 -0.00055 57.25 0.01499 0.00333 -0.00271 0.00069 -0.00054 57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00271 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 59.75 0.01323 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01379 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00330 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00268 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.0068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00056	55.75	0.01601	0.00313	-0.00282	0.00070	-0.00054
57.25 0.01499 0.00333 -0.00271 0.00069 -0.00054 57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00271 0.00068 -0.00054 58.75 0.01282 0.00404 -0.00277 0.00071 -0.00056 59.25 0.01329 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00268 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00261 0.00068 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00056 62.75 0.01357 0.00330 -0.00273 0.00070 -0.00051	56.25	0.01619	0.00296	-0.00271	0.00067	-0.00055
57.75 0.01417 0.00371 -0.00267 0.00067 -0.00053 58.25 0.01314 0.00416 -0.00271 0.00067 -0.00053 58.75 0.01282 0.00430 -0.00274 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 59.75 0.01323 0.00355 -0.00269 0.00069 -0.00056 60.25 0.01379 0.00350 -0.00268 0.00069 -0.00266 60.75 0.01379 0.00330 -0.00262 0.00068 -0.00056 61.25 0.01441 0.00330 -0.00261 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00268 0.00069 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01247 0.00340 -0.00258 0.00068 -0.00049	56.75	0.01568	0.00307	-0.00269	0.00068	-0.00055
58.25 0.01314 0.00416 -0.00271 0.00067 -0.00053 58.75 0.01282 0.00430 -0.00274 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 59.75 0.01323 0.00355 -0.00266 0.00068 -0.00056 60.25 0.01379 0.00350 -0.00268 0.00069 -0.00056 60.75 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.25 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00258 0.00068 -0.00049	57.25	0.01499	0.00333	-0.00271	0.00069	-0.00054
58.75 0.01282 0.00430 -0.00274 0.00068 -0.00054 59.25 0.01299 0.00404 -0.00277 0.00071 -0.0056 59.75 0.01323 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00258 0.00068 -0.00049 64.25 0.01241 0.00351 -0.00258 0.00068 -0.00051	57.75	0.01417	0.00371	-0.00267	0.00067	-0.00053
59.25 0.01299 0.00404 -0.00277 0.00071 -0.00056 59.75 0.01323 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00068 -0.00049 64.25 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01241 0.00351 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00352 -0.00238 0.00067 -0.00051	58.25	0.01314	0.00416	-0.00271	0.00067	-0.00053
59.75 0.01323 0.00375 -0.00266 0.00068 -0.00056 60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00327 -0.00261 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00268 0.00069 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00352 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00352 -0.00224 0.00065 -0.00054	58.75	0.01282	0.00430	-0.00274	0.00068	-0.00054
60.25 0.01359 0.00355 -0.00269 0.00069 -0.00056 60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00261 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00268 0.00069 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00258 0.00068 -0.00051 65.25 0.01241 0.00355 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00067 -0.00056	59.25	0.01299	0.00404	-0.00277	0.00071	-0.00056
60.75 0.01379 0.00350 -0.00268 0.00069 -0.00056 61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00054	59.75	0.01323	0.00375	-0.00266	0.00068	-0.00056
61.25 0.01441 0.00330 -0.00262 0.00068 -0.00056 61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.0068 -0.00051 65.25 0.01241 0.00352 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.0066 -0.00054 67.25 0.01187 0.00338 -0.00227 0.0068 -0.00054 <t< td=""><td>60.25</td><td>0.01359</td><td>0.00355</td><td>-0.00269</td><td>0.00069</td><td>-0.00056</td></t<>	60.25	0.01359	0.00355	-0.00269	0.00069	-0.00056
61.75 0.01447 0.00327 -0.00261 0.00068 -0.00056 62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00227 0.00068 -0.00054 67.75 0.01135 0.00338 -0.00247 0.00068 -0.00053	60.75	0.01379	0.00350	-0.00268	0.00069	-0.00056
62.25 0.01411 0.00327 -0.00268 0.00069 -0.00056 62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00352 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00338 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053	61.25	0.01441	0.00330	-0.00262	0.00068	-0.00056
62.75 0.01357 0.00330 -0.00274 0.00071 -0.00054 63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00227 0.00068 -0.00054 67.75 0.01135 0.00338 -0.00226 0.00067 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053	61.75	0.01447	0.00327	-0.00261	0.00068	-0.00056
63.25 0.01290 0.00330 -0.00273 0.00070 -0.00051 63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00051	62.25	0.01411	0.00327	-0.00268	0.00069	-0.00056
63.75 0.01247 0.00340 -0.00268 0.00068 -0.00049 64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00259 0.00069 -0.00050	62.75	0.01357	0.00330	-0.00274	0.00071	-0.00054
64.25 0.01232 0.00353 -0.00258 0.00068 -0.00049 64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00259 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00263 0.00071 -0.00049	63.25	0.01290	0.00330	-0.00273	0.00070	-0.00051
64.75 0.01241 0.00354 -0.00250 0.00068 -0.00051 65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00283 -0.00269 0.00071 -0.00050 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051	63.75	0.01247	0.00340	-0.00268	0.00068	-0.00049
65.25 0.01241 0.00365 -0.00238 0.00067 -0.00054 65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 71.25 0.01104 0.00310 -0.00267 0.00070 -0.00055	64.25	0.01232	0.00353	-0.00258	0.00068	-0.00049
65.75 0.01264 0.00352 -0.00224 0.00065 -0.00056 66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01049 0.00336 -0.00277 0.00071 -0.00055	64.75	0.01241	0.00354	-0.00250	0.00068	-0.00051
66.25 0.01223 0.00348 -0.00224 0.00067 -0.00055 66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01049 0.00336 -0.00277 0.00071 -0.00055	65.25	0.01241	0.00365	-0.00238	0.00067	-0.00054
66.75 0.01187 0.00350 -0.00227 0.00068 -0.00054 67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.0104 0.00310 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	65.75	0.01264	0.00352	-0.00224	0.00065	-0.00056
67.25 0.01175 0.00338 -0.00226 0.00067 -0.00054 67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	66.25	0.01223	0.00348	-0.00224	0.00067	-0.00055
67.75 0.01135 0.00338 -0.00239 0.00068 -0.00053 68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	66.75	0.01187	0.00350	-0.00227	0.00068	-0.00054
68.25 0.01108 0.00337 -0.00247 0.00068 -0.00053 68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	67.25	0.01175	0.00338	-0.00226	0.00067	-0.00054
68.75 0.01090 0.00334 -0.00259 0.00069 -0.00052 69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	67.75	0.01135	0.00338	-0.00239	0.00068	-0.00053
69.25 0.01078 0.00318 -0.00258 0.00069 -0.00051 69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	68.25	0.01108	0.00337	-0.00247	0.00068	-0.00053
69.75 0.01101 0.00293 -0.00259 0.00069 -0.00050 70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	68.75	0.01090	0.00334	-0.00259	0.00069	-0.00052
70.25 0.01110 0.00283 -0.00262 0.00071 -0.00049 70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	69.25	0.01078	0.00318	-0.00258	0.00069	-0.00051
70.75 0.01124 0.00295 -0.00263 0.00072 -0.00051 71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	69.75	0.01101	0.00293	-0.00259	0.00069	-0.00050
71.25 0.01104 0.00310 -0.00260 0.00070 -0.00053 71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	70.25	0.01110	0.00283	-0.00262	0.00071	-0.00049
71.75 0.01091 0.00321 -0.00267 0.00070 -0.00055 72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	70.75	0.01124	0.00295	-0.00263	0.00072	-0.00051
72.25 0.01049 0.00336 -0.00277 0.00071 -0.00057	71.25	0.01104	0.00310	-0.00260	0.00070	-0.00053
	71.75	0.01091	0.00321	-0.00267	0.00070	-0.00055
72.75 0.01014 0.00339 -0.00281 0.00070 -0.00057	72.25	0.01049	0.00336	-0.00277	0.00071	-0.00057
	72.75	0.01014	0.00339	-0.00281	0.00070	-0.00057

-	1				
73.25	0.00996	0.00335	-0.00287	0.00070	-0.00056
73.75	0.00949	0.00333	-0.00294	0.00071	-0.00054
74.25	0.00885	0.00352	-0.00301	0.00072	-0.00052
74.75	0.00867	0.00358	-0.00302	0.00073	-0.00051
75.25	0.00807	0.00379	-0.00299	0.00072	-0.00049
75.75	0.00804	0.00391	-0.00303	0.00073	-0.00049
76.25	0.00805	0.00402	-0.00296	0.00072	-0.00048
76.75	0.00812	0.00403	-0.00292	0.00071	-0.00048
77.25	0.00800	0.00419	-0.00291	0.00070	-0.00049
77.75	0.00756	0.00430	-0.00298	0.00070	-0.00048
78.25	0.00745	0.00429	-0.00304	0.00070	-0.00048
78.75	0.00743	0.00401	-0.00315	0.00071	-0.00046
79.25	0.00743	0.00379	-0.00323	0.00073	-0.00044
79.75	0.00739	0.00361	-0.00311	0.00071	-0.00043
80.25	0.00733	0.00361	-0.00311	0.00073	-0.00042
80.75	0.00697	0.00377	-0.00301	0.00072	-0.00040
81.25	0.00717	0.00363	-0.00301	0.00073	-0.00038
81.75	0.00744	0.00321	-0.00304	0.00074	-0.00038
82.25	0.00724	0.00289	-0.00312	0.00075	-0.00035
82.75	0.00669	0.00293	-0.00316	0.00074	-0.00033
83.25	0.00589	0.00335	-0.00312	0.00074	-0.00033
83.75	0.00564	0.00354	-0.00303	0.00073	-0.00033
84.25	0.00575	0.00360	-0.00303	0.00072	-0.00032
84.75	0.00618	0.00327	-0.00301	0.00071	-0.00031
85.25	0.00628	0.00296	-0.00294	0.00071	-0.00027
85.75	0.00558	0.00319	-0.00290	0.00073	-0.00023
86.25	0.00493	0.00363	-0.00291	0.00072	-0.00022
86.75	0.00428	0.00393	-0.00298	0.00071	-0.00020
87.25	0.00366	0.00408	-0.00296	0.00070	-0.00016
87.76	0.00519	0.00337	-0.00273	0.00071	-0.00017
88.26	0.00554	0.00349	-0.00271	0.00070	-0.00016
88.76	0.00412	0.00354	-0.00283	0.00072	-0.00009
89.27	0.00500	0.00298	-0.00255	0.00072	-0.00010
89.71	0.00412	0.00334	-0.00221	0.00056	0.00001

Table 44. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=5^\circ,\ \dot{\varphi}=7$ °/sec

		DYNAMIC	$ROLL \phi = 0^{\circ}-9$	0°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.22	0.07173	0.00256	-0.00322	0.00070	0.00022
0.73	0.07103	0.00257	-0.00286	0.00067	0.00020
1.24	0.06899	0.00305	-0.00247	0.00065	0.00011
1.74	0.07085	0.00223	-0.00230	0.00066	-0.00009
2.25	0.07265	0.00162	-0.00243	0.00070	-0.00014
2.75	0.07215	0.00221	-0.00249	0.00073	-0.00014
3.25	0.07213	0.00219	-0.00243	0.00072	-0.00011
3.75	0.07247	0.00174	-0.00245	0.00072	-0.00013
4.25	0.07213	0.00202	-0.00261	0.00075	-0.00016
4.75	0.07199	0.00236	-0.00256	0.00074	-0.00019
5.25	0.07176	0.00240	-0.00256	0.00076	-0.00022
5.75	0.07144	0.00234	-0.00264	0.00077	-0.00022
6.24	0.07170	0.00216	-0.00273	0.00078	-0.00024
6.75	0.07239	0.00197	-0.00282	0.00079	-0.00027
7.25	0.07283	0.00176	-0.00284	0.00082	-0.00030
7.74	0.07261	0.00180	-0.00279	0.00083	-0.00033
8.25	0.07171	0.00223	-0.00278	0.00083	-0.00034
8.75	0.07049	0.00258	-0.00292	0.00085	-0.00035
9.25	0.07043	0.00257	-0.00299	0.00084	-0.00037
9.75	0.07078	0.00241	-0.00303	0.00084	-0.00039
10.25	0.07159	0.00212	-0.00304	0.00085	-0.00040
10.74	0.07229	0.00179	-0.00301	0.00087	-0.00041
11.25	0.07222	0.00176	-0.00298	0.00088	-0.00043
11.75	0.07166	0.00178	-0.00295	0.00088	-0.00044
12.25	0.07077	0.00204	-0.00310	0.00091	-0.00045
12.75	0.07014	0.00215	-0.00310	0.00088	-0.00045
13.25	0.06984	0.00214	-0.00321	0.00089	-0.00047
13.75	0.07032	0.00187	-0.00320	0.00089	-0.00051
14.25	0.07073	0.00170	-0.00310	0.00087	-0.00053
14.75	0.07096	0.00162	-0.00305	0.00089	-0.00054
15.25	0.07104	0.00169	-0.00303	0.00089	-0.00052
15.75	0.07073	0.00171	-0.00298	0.00087	-0.00049
16.25	0.07057	0.00155	-0.00306	0.00088	-0.00048
16.75	0.07032	0.00145	-0.00313	0.00089	-0.00047
17.25	0.07043	0.00136	-0.00322	0.00089	-0.00049

17.75	0.07021	0.00152	-0.00322	0.00087	-0.00052
18.25	0.07018	0.00163	-0.00328	0.00088	-0.00054
18.75	0.06980	0.00177	-0.00326	0.00089	-0.00056
19.25	0.06907	0.00176	-0.00314	0.00089	-0.00055
19.75	0.06815	0.00184	-0.00316	0.00092	-0.00053
20.25	0.06739	0.00202	-0.00322	0.00094	-0.00050
20.74	0.06703	0.00212	-0.00337	0.00097	-0.00049
21.25	0.06732	0.00212	-0.00340	0.00094	-0.00048
21.75	0.06807	0.00194	-0.00352	0.00095	-0.00049
22.25	0.06850	0.00183	-0.00353	0.00093	-0.00051
22.75	0.06877	0.00154	-0.00343	0.00091	-0.00054
23.25	0.06830	0.00166	-0.00340	0.00092	-0.00056
23.75	0.06777	0.00163	-0.00339	0.00093	-0.00057
24.24	0.06735	0.00177	-0.00338	0.00094	-0.00056
24.75	0.06669	0.00191	-0.00337	0.00091	-0.00056
25.25	0.06655	0.00186	-0.00349	0.00094	-0.00057
25.75	0.06623	0.00196	-0.00355	0.00093	-0.00058
26.24	0.06597	0.00194	-0.00357	0.00091	-0.00059
26.75	0.06574	0.00180	-0.00363	0.00092	-0.00061
27.25	0.06612	0.00146	-0.00362	0.00093	-0.00062
27.75	0.06659	0.00102	-0.00364	0.00094	-0.00062
28.25	0.06694	0.00081	-0.00358	0.00094	-0.00062
28.75	0.06680	0.00081	-0.00368	0.00096	-0.00065
29.25	0.06655	0.00114	-0.00372	0.00095	-0.00068
29.75	0.06585	0.00157	-0.00370	0.00093	-0.00070
30.25	0.06535	0.00176	-0.00376	0.00093	-0.00071
30.75	0.06476	0.00183	-0.00373	0.00093	-0.00071
31.25	0.06430	0.00182	-0.00373	0.00093	-0.00069
31.75	0.06376	0.00183	-0.00367	0.00092	-0.00067
32.25	0.06377	0.00153	-0.00366	0.00093	-0.00064
32.75	0.06364	0.00139	-0.00360	0.00094	-0.00064
33.25	0.06355	0.00125	-0.00357	0.00093	-0.00064
33.75	0.06327	0.00131	-0.00363	0.00094	-0.00065
34.25	0.06291	0.00132	-0.00370	0.00094	-0.00067
34.75	0.06221	0.00152	-0.00368	0.00093	-0.00070
35.25	0.06155	0.00168	-0.00377	0.00094	-0.00073
35.75	0.06092	0.00187	-0.00371	0.00092	-0.00074
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36.25	0.06045	0.00187	-0.00373	0.00092	-0.00073
36.75	0.05992	0.00199	-0.00369	0.00092	-0.00070
37.25	0.05946	0.00202	-0.00368	0.00093	-0.00068
37.75	0.05875	0.00210	-0.00368	0.00094	-0.00068
38.25	0.05869	0.00181	-0.00363	0.00093	-0.00070
38.75	0.05887	0.00138	-0.00362	0.00094	-0.00072
39.25	0.05875	0.00097	-0.00363	0.00095	-0.00074
39.75	0.05842	0.00070	-0.00363	0.00095	-0.00076
40.25	0.05749	0.00074	-0.00362	0.00095	-0.00078
40.75	0.05728	0.00075	-0.00359	0.00094	-0.00081
41.25	0.05700	0.00084	-0.00352	0.00092	-0.00084
41.75	0.05696	0.00077	-0.00340	0.00091	-0.00086
42.25	0.05712	0.00073	-0.00338	0.00091	-0.00086
42.75	0.05701	0.00075	-0.00332	0.00091	-0.00087
43.25	0.05625	0.00098	-0.00328	0.00090	-0.00088
43.75	0.05529	0.00147	-0.00331	0.00089	-0.00088
44.25	0.05453	0.00154	-0.00335	0.00090	-0.00089
44.75	0.05371	0.00163	-0.00334	0.00090	-0.00089
45.25	0.05330	0.00167	-0.00334	0.00090	-0.00088
45.75	0.05246	0.00201	-0.00336	0.00091	-0.00085
46.25	0.05161	0.00220	-0.00329	0.00089	-0.00083
46.75	0.05127	0.00228	-0.00331	0.00088	-0.00083
47.25	0.05126	0.00209	-0.00337	0.00089	-0.00086
47.75	0.05102	0.00183	-0.00350	0.00092	-0.00087
48.25	0.05081	0.00156	-0.00354	0.00092	-0.00088
48.75	0.05041	0.00153	-0.00357	0.00092	-0.00087
49.25	0.05061	0.00118	-0.00363	0.00092	-0.00087
49.75	0.05009	0.00106	-0.00363	0.00090	-0.00088
50.25	0.04955	0.00116	-0.00363	0.00089	-0.00091
50.75	0.04890	0.00122	-0.00370	0.00091	-0.00094
51.25	0.04807	0.00149	-0.00376	0.00092	-0.00093
51.75	0.04744	0.00174	-0.00379	0.00093	-0.00092
52.25	0.04697	0.00174	-0.00383	0.00094	-0.00093
52.75	0.04665	0.00178	-0.00380	0.00093	-0.00096
53.25	0.04578	0.00187	-0.00373	0.00091	-0.00099
53.75	0.04492	0.00195	-0.00369	0.00089	-0.00102
54.25	0.04460	0.00185	-0.00367	0.00089	-0.00105
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54.75 0.04398 55.25 0.04353	0.00175	-0.00361	0.00090	-0.00106
55.25 0.04353				0.00100
33.23 0.04333	0.00166	-0.00353	0.00089	-0.00107
55.75 0.04285	0.00158	-0.00357	0.00089	-0.00108
56.25 0.04231	0.00164	-0.00355	0.00087	-0.00110
56.75 0.04184	0.00169	-0.00357	0.00084	-0.00114
57.25 0.04133	0.00188	-0.00361	0.00082	-0.00117
57.75 0.04130	0.00187	-0.00366	0.00082	-0.00120
58.25 0.04045	0.00211	-0.00366	0.00082	-0.00122
58.75 0.03931	0.00232	-0.00362	0.00083	-0.00123
59.25 0.03838	0.00247	-0.00358	0.00084	-0.00125
59.75 0.03753	0.00251	-0.00349	0.00083	-0.00124
60.25 0.03669	0.00257	-0.00346	0.00081	-0.00123
60.75 0.03653	0.00231	-0.00343	0.00081	-0.00124
61.25 0.03665	0.00194	-0.00339	0.00080	-0.00126
61.75 0.03684	0.00154	-0.00336	0.00080	-0.00130
62.25 0.03608	0.00173	-0.00331	0.00078	-0.00136
62.75 0.03510	0.00219	-0.00328	0.00077	-0.00140
63.25 0.03392	0.00258	-0.00325	0.00077	-0.00141
63.75 0.03278	0.00287	-0.00327	0.00078	-0.00136
64.25 0.03223	0.00276	-0.00323	0.00078	-0.00132
64.75 0.03182	0.00252	-0.00318	0.00079	-0.00130
65.25 0.03133	0.00240	-0.00309	0.00079	-0.00130
65.74 0.03054	0.00245	-0.00301	0.00078	-0.00132
66.25 0.02945	0.00256	-0.00295	0.00077	-0.00131
66.76 0.02818	0.00272	-0.00294	0.00078	-0.00127
67.25 0.02735	0.00262	-0.00300	0.00080	-0.00123
67.75 0.02637	0.00269	-0.00301	0.00080	-0.00118
68.25 0.02531	0.00314	-0.00313	0.00081	-0.00113
68.75 0.02450	0.00345	-0.00323	0.00081	-0.00109
69.24 0.02426	0.00353	-0.00333	0.00082	-0.00107
69.75 0.02415	0.00348	-0.00336	0.00082	-0.00106
70.26 0.02387	0.00327	-0.00339	0.00084	-0.00105
70.75 0.02342	0.00310	-0.00342	0.00086	-0.00104
71.25 0.02261	0.00305	-0.00349	0.00087	-0.00101
71.75 0.02150	0.00322	-0.00357	0.00087	-0.00096
72.25 0.02048	0.00338	-0.00373	0.00088	-0.00091
72.75 0.01955	0.00364	-0.00381	0.00088	-0.00086

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73.25	0.01881	0.00390	-0.00387	0.00089	-0.00083
73.75	0.01839	0.00392	-0.00384	0.00089	-0.00080
74.25	0.01827	0.00391	-0.00386	0.00091	-0.00077
74.74	0.01816	0.00389	-0.00381	0.00090	-0.00073
75.25	0.01759	0.00393	-0.00381	0.00090	-0.00070
75.75	0.01703	0.00390	-0.00394	0.00092	-0.00067
76.25	0.01641	0.00381	-0.00401	0.00091	-0.00064
76.75	0.01552	0.00371	-0.00411	0.00092	-0.00062
77.25	0.01435	0.00372	-0.00412	0.00093	-0.00060
77.75	0.01292	0.00389	-0.00408	0.00093	-0.00056
78.25	0.01214	0.00388	-0.00402	0.00093	-0.00050
78.75	0.01168	0.00395	-0.00399	0.00091	-0.00044
79.25	0.01152	0.00404	-0.00389	0.00088	-0.00042
79.75	0.01118	0.00419	-0.00395	0.00087	-0.00044
80.25	0.01067	0.00423	-0.00399	0.00088	-0.00045
80.75	0.00987	0.00434	-0.00397	0.00086	-0.00043
81.25	0.00898	0.00443	-0.00400	0.00086	-0.00039
81.75	0.00836	0.00456	-0.00402	0.00086	-0.00035
82.25	0.00801	0.00445	-0.00400	0.00087	-0.00033
82.75	0.00809	0.00414	-0.00397	0.00088	-0.00033
83.25	0.00814	0.00382	-0.00389	0.00087	-0.00036
83.75	0.00759	0.00372	-0.00388	0.00088	-0.00035
84.25	0.00599	0.00435	-0.00386	0.00088	-0.00029
84.75	0.00511	0.00477	-0.00385	0.00087	-0.00025
85.25	0.00570	0.00442	-0.00380	0.00085	-0.00025
85.75	0.00558	0.00429	-0.00377	0.00082	-0.00024
86.25	0.00500	0.00431	-0.00367	0.00081	-0.00020
86.75	0.00499	0.00417	-0.00356	0.00081	-0.00017
87.25	0.00510	0.00395	-0.00355	0.00083	-0.00018
87.76	0.00431	0.00380	-0.00349	0.00083	-0.00013
88.26	0.00429	0.00360	-0.00352	0.00084	-0.00007
88.76	0.00333	0.00404	-0.00353	0.00083	-0.00006
89.27	0.00243	0.00424	-0.00339	0.00081	-0.00002
89.71	0.00339	0.00376	-0.00330	0.00078	0.00004

Table 45. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=10^\circ,\ \dot{\varphi}=7$ °/sec

		DYNAMIC	ROLL $\phi = 0^{\circ}$ -9	90°	
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}
0.22	0.09818	0.00606	-0.00030	-0.00036	0.00018
0.73	0.09701	0.00655	-0.00001	-0.00040	0.00017
1.24	0.09665	0.00654	0.00040	-0.00040	0.00010
1.74	0.09718	0.00618	0.00049	-0.00038	-0.00007
2.25	0.09800	0.00617	0.00049	-0.00039	-0.00009
2.74	0.09742	0.00638	0.00049	-0.00038	-0.00014
3.25	0.09662	0.00655	0.00054	-0.00038	-0.00009
3.74	0.09693	0.00644	0.00042	-0.00037	-0.00009
4.25	0.09781	0.00635	0.00020	-0.00034	-0.00017
4.75	0.09881	0.00615	0.00019	-0.00033	-0.00024
5.25	0.09903	0.00587	0.00031	-0.00032	-0.00026
5.74	0.09881	0.00590	0.00032	-0.00032	-0.00022
6.25	0.09830	0.00604	0.00024	-0.00032	-0.00020
6.75	0.09855	0.00593	0.00015	-0.00032	-0.00025
7.25	0.09811	0.00603	0.00004	-0.00030	-0.00028
7.75	0.09766	0.00634	0.00005	-0.00032	-0.00031
8.25	0.09743	0.00673	-0.00002	-0.00031	-0.00033
8.75	0.09775	0.00649	-0.00002	-0.00031	-0.00033
9.25	0.09789	0.00608	-0.00001	-0.00030	-0.00033
9.75	0.09810	0.00574	-0.00003	-0.00030	-0.00034
10.25	0.09826	0.00559	-0.00014	-0.00028	-0.00035
10.74	0.09822	0.00577	-0.00019	-0.00029	-0.00039
11.25	0.09808	0.00587	-0.00018	-0.00029	-0.00044
11.75	0.09802	0.00576	-0.00013	-0.00029	-0.00047
12.25	0.09821	0.00552	-0.00017	-0.00027	-0.00048
12.75	0.09806	0.00535	-0.00016	-0.00027	-0.00046
13.25	0.09835	0.00528	-0.00034	-0.00023	-0.00046
13.75	0.09804	0.00538	-0.00031	-0.00025	-0.00046
14.25	0.09769	0.00552	-0.00041	-0.00023	-0.00048
14.75	0.09752	0.00552	-0.00047	-0.00022	-0.00049
15.25	0.09708	0.00561	-0.00044	-0.00025	-0.00048
15.75	0.09702	0.00583	-0.00051	-0.00026	-0.00046
16.25	0.09693	0.00603	-0.00062	-0.00024	-0.00044
16.75	0.09654	0.00619	-0.00059	-0.00025	-0.00044
17.24	0.09641	0.00615	-0.00056	-0.00026	-0.00046

17.75 0.09634 0.00594 -0.00068 -0.00023 -0.00049 18.25 0.09598 0.00586 -0.00081 -0.00020 -0.00051 18.75 0.09500 0.00602 -0.00086 -0.00019 -0.00049 19.25 0.09394 0.00636 -0.00087 -0.00018 -0.00046 20.25 0.09375 0.00637 -0.00088 -0.00018 -0.00045 20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00086 -0.00020 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00577 -0.00093 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00093 -0.00018 -0.00043 22.25 0.09929 0.00579 -0.00100 -0.00017 -0.00048 23.25 0.09211 0.00579 -0.00105 -0.00017 -0.00048						
18.75 0.09500 0.00602 -0.00086 -0.00020 -0.00051 19.25 0.09394 0.00636 -0.00087 -0.00019 -0.00049 19.75 0.09365 0.00649 -0.00087 -0.00018 -0.00046 20.25 0.09375 0.00637 -0.00088 -0.00021 -0.00044 20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00098 -0.00017 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00093 -0.0018 -0.00043 22.75 0.09299 0.0577 -0.00097 -0.0018 -0.00043 23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00048 23.75 0.09111 0.00570 -0.00109 -0.0018 -0.00042 24.75 0.09181 0.00567 -0.00109 -0.00018 -0.00043	17.75	0.09634	0.00594	-0.00068	-0.00023	-0.00049
19.25 0.09394 0.00636 -0.00087 -0.00019 -0.00049 19.75 0.09365 0.00649 -0.00087 -0.00018 -0.00046 20.25 0.09375 0.00637 -0.00088 -0.00021 -0.00045 20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00098 -0.00017 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00577 -0.00093 -0.0018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.0018 -0.00044 23.25 0.09262 0.00579 -0.00105 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00109 -0.00018 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.0018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00017 -0.00043 <tr< td=""><td>18.25</td><td>0.09598</td><td>0.00586</td><td>-0.00081</td><td>-0.00020</td><td>-0.00051</td></tr<>	18.25	0.09598	0.00586	-0.00081	-0.00020	-0.00051
19.75 0.09365 0.00649 -0.00087 -0.00018 -0.00046 20.25 0.09375 0.00637 -0.00088 -0.00018 -0.00045 20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00086 -0.00017 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00093 -0.0018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00045 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.75 0.09131 0.00564 -0.00135 -0.00016 -0.00043 <	18.75	0.09500	0.00602	-0.00086	-0.00020	-0.00051
20.25 0.09375 0.00637 -0.00088 -0.00018 -0.00045 20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00086 -0.00020 -0.00043 21.75 0.09434 0.00568 -0.00093 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00097 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.0917 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09181 0.00567 -0.00109 -0.00018 -0.00047 24.25 0.09181 0.00567 -0.00116 -0.00018 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 <	19.25	0.09394	0.00636	-0.00087	-0.00019	-0.00049
20.74 0.09413 0.00608 -0.00078 -0.00021 -0.00044 21.25 0.09446 0.00586 -0.00086 -0.00020 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00093 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00109 -0.00018 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00564 -0.00137 -0.00017 -0.00044 26.25 0.09103 0.00547 -0.00144 -0.00016 -0.00045	19.75	0.09365	0.00649	-0.00087	-0.00018	-0.00046
21.25 0.09446 0.00586 -0.00086 -0.00020 -0.00043 21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00093 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00047 24.25 0.09197 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00137 -0.00017 -0.00044 26.25 0.09103 0.00547 -0.00159 -0.00015 -0.00045 27.25 0.09082 0.00547 -0.00159 -0.00015 -0.00042	20.25	0.09375	0.00637	-0.00088	-0.00018	-0.00045
21.75 0.09434 0.00568 -0.00098 -0.00017 -0.00043 22.25 0.09376 0.00567 -0.00093 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09000 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09080 0.00519 -0.00157 -0.00016 -0.00044	20.74	0.09413	0.00608	-0.00078	-0.00021	-0.00044
22.25 0.09376 0.00567 -0.00093 -0.00018 -0.00043 22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09197 0.00567 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09100 0.00555 -0.00144 -0.00016 -0.00045 26.75 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09082 0.00547 -0.00154 -0.00016 -0.00042 28.75 0.09080 0.00519 -0.00157 -0.00017 -0.00048	21.25	0.09446	0.00586	-0.00086	-0.00020	-0.00043
22.75 0.09299 0.00577 -0.00097 -0.00018 -0.00046 23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.0013 -0.00016 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00157 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 <	21.75	0.09434	0.00568	-0.00098	-0.00017	-0.00043
23.25 0.09262 0.00579 -0.00100 -0.00017 -0.00048 23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.0013 -0.00016 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00157 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 <	22.25	0.09376	0.00567	-0.00093	-0.00018	-0.00043
23.75 0.09211 0.00579 -0.00105 -0.00017 -0.00047 24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00044 25.75 0.09131 0.00565 -0.00137 -0.00017 -0.00045 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00557 -0.00164 -0.00015 -0.00053	22.75	0.09299	0.00577	-0.00097	-0.00018	-0.00046
24.25 0.09197 0.00570 -0.00109 -0.00018 -0.00045 24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00557 -0.00164 -0.00015 -0.00053 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056	23.25	0.09262	0.00579	-0.00100	-0.00017	-0.00048
24.75 0.09181 0.00567 -0.00116 -0.00019 -0.00043 25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00016 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00544 -0.00164 -0.00012 -0.00054	23.75	0.09211	0.00579	-0.00105	-0.00017	-0.00047
25.25 0.09159 0.00558 -0.00133 -0.00016 -0.00043 25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08985 0.00441 -0.00179 -0.00010 -0.00054	24.25	0.09197	0.00570	-0.00109	-0.00018	-0.00045
25.75 0.09131 0.00565 -0.00135 -0.00017 -0.00044 26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00054 31.25 0.08985 0.00471 -0.00170 -0.00010 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056	24.75	0.09181	0.00567	-0.00116	-0.00019	-0.00043
26.25 0.09103 0.00564 -0.00137 -0.00017 -0.00045 26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08969 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08988 0.00471 -0.00170 -0.00010 -0.00054 32.25 0.08963 0.0037 -0.00179 -0.00010 -0.00056 <	25.25	0.09159	0.00558	-0.00133	-0.00016	-0.00043
26.75 0.09100 0.00555 -0.00144 -0.00016 -0.00045 27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08975 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00056 32.75 0.08963 0.00397 -0.00188 -0.00010 -0.00055	25.75	0.09131	0.00565	-0.00135	-0.00017	-0.00044
27.25 0.09082 0.00547 -0.00150 -0.00015 -0.00042 27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00013 -0.00053 29.75 0.08975 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08992 0.00387 -0.00188 -0.00010 -0.00053	26.25	0.09103	0.00564	-0.00137	-0.00017	-0.00045
27.75 0.09093 0.00519 -0.00154 -0.00016 -0.00041 28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08963 0.00397 -0.00178 -0.00010 -0.00056 32.75 0.08963 0.00387 -0.00188 -0.00010 -0.00055 33.75 0.08686 0.00435 -0.00187 -0.00010 -0.00055 33.75 0.08686 0.00435 -0.00189 -0.00011 -0.00052	26.75	0.09100	0.00555	-0.00144	-0.00016	-0.00045
28.25 0.09080 0.00519 -0.00157 -0.00017 -0.00043 28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00013 -0.00053 29.75 0.08975 0.00524 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00012 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00010 -0.00054	27.25	0.09082	0.00547	-0.00150	-0.00015	-0.00042
28.75 0.09032 0.00534 -0.00165 -0.00015 -0.00048 29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08975 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08554 0.00490 -0.00188 -0.00010 -0.00056 <td>27.75</td> <td>0.09093</td> <td>0.00519</td> <td>-0.00154</td> <td>-0.00016</td> <td>-0.00041</td>	27.75	0.09093	0.00519	-0.00154	-0.00016	-0.00041
29.25 0.08977 0.00555 -0.00166 -0.00015 -0.00053 29.75 0.08975 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00188 -0.00010 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	28.25	0.09080	0.00519	-0.00157	-0.00017	-0.00043
29.75 0.08975 0.00537 -0.00164 -0.00013 -0.00056 30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00188 -0.00010 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00010 -0.00056 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	28.75	0.09032	0.00534	-0.00165	-0.00015	-0.00048
30.25 0.08969 0.00524 -0.00164 -0.00013 -0.00056 30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00010 -0.00056 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	29.25	0.08977	0.00555	-0.00166	-0.00015	-0.00053
30.75 0.08975 0.00507 -0.00164 -0.00012 -0.00054 31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	29.75	0.08975	0.00537	-0.00164	-0.00013	-0.00056
31.25 0.08998 0.00471 -0.00170 -0.00010 -0.00053 31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	30.25	0.08969	0.00524	-0.00164	-0.00013	-0.00056
31.75 0.08985 0.00446 -0.00175 -0.00009 -0.00054 32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	30.75	0.08975	0.00507	-0.00164	-0.00012	-0.00054
32.25 0.08971 0.00420 -0.00179 -0.00010 -0.00056 32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	31.25	0.08998	0.00471	-0.00170	-0.00010	-0.00053
32.75 0.08963 0.00397 -0.00178 -0.00010 -0.00056 33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	31.75	0.08985	0.00446	-0.00175	-0.00009	-0.00054
33.25 0.08892 0.00387 -0.00188 -0.00009 -0.00055 33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	32.25	0.08971	0.00420	-0.00179	-0.00010	-0.00056
33.75 0.08790 0.00402 -0.00187 -0.00010 -0.00053 34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	32.75	0.08963	0.00397	-0.00178	-0.00010	-0.00056
34.25 0.08686 0.00435 -0.00189 -0.00011 -0.00052 34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	33.25	0.08892	0.00387	-0.00188	-0.00009	-0.00055
34.75 0.08625 0.00464 -0.00184 -0.00011 -0.00054 35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	33.75	0.08790	0.00402	-0.00187	-0.00010	-0.00053
35.25 0.08554 0.00490 -0.00188 -0.00010 -0.00056	34.25	0.08686	0.00435	-0.00189	-0.00011	-0.00052
	34.75	0.08625	0.00464	-0.00184	-0.00011	-0.00054
35.75 0.08477 0.00506 -0.00191 -0.00009 -0.00055	35.25	0.08554	0.00490	-0.00188	-0.00010	-0.00056
	35.75	0.08477	0.00506	-0.00191	-0.00009	-0.00055

36.25	0.08439	0.00506	-0.00189	-0.00009	-0.00054
36.75	0.08413	0.00472	-0.00195	-0.00008	-0.00051
37.25	0.08386	0.00444	-0.00200	-0.00007	-0.00051
37.75	0.08387	0.00403	-0.00190	-0.00010	-0.00050
38.25	0.08366	0.00373	-0.00191	-0.00011	-0.00052
38.75	0.08341	0.00363	-0.00198	-0.00010	-0.00055
39.25	0.08280	0.00363	-0.00194	-0.00010	-0.00056
39.74	0.08207	0.00373	-0.00190	-0.00011	-0.00058
40.25	0.08110	0.00390	-0.00187	-0.00010	-0.00058
40.76	0.07998	0.00389	-0.00190	-0.00008	-0.00060
41.25	0.07930	0.00380	-0.00179	-0.00009	-0.00060
41.75	0.07887	0.00377	-0.00180	-0.00009	-0.00059
42.25	0.07843	0.00379	-0.00189	-0.00007	-0.00059
42.75	0.07828	0.00385	-0.00191	-0.00007	-0.00060
43.24	0.07796	0.00389	-0.00187	-0.00009	-0.00063
43.75	0.07731	0.00385	-0.00185	-0.00008	-0.00067
44.26	0.07682	0.00371	-0.00185	-0.00008	-0.00071
44.75	0.07576	0.00374	-0.00180	-0.00009	-0.00071
45.25	0.07495	0.00374	-0.00178	-0.00009	-0.00070
45.75	0.07404	0.00373	-0.00187	-0.00007	-0.00067
46.25	0.07374	0.00364	-0.00190	-0.00007	-0.00066
46.75	0.07376	0.00352	-0.00185	-0.00009	-0.00068
47.25	0.07378	0.00337	-0.00187	-0.00010	-0.00070
47.75	0.07389	0.00308	-0.00197	-0.00006	-0.00072
48.25	0.07354	0.00286	-0.00199	-0.00006	-0.00070
48.75	0.07251	0.00277	-0.00211	-0.00006	-0.00067
49.25	0.07165	0.00280	-0.00221	-0.00007	-0.00066
49.75	0.07033	0.00306	-0.00230	-0.00008	-0.00067
50.25	0.06914	0.00337	-0.00235	-0.00009	-0.00070
50.75	0.06826	0.00346	-0.00234	-0.00009	-0.00073
51.25	0.06752	0.00336	-0.00241	-0.00005	-0.00074
51.75	0.06662	0.00343	-0.00235	-0.00006	-0.00073
52.25	0.06632	0.00329	-0.00234	-0.00006	-0.00072
52.75	0.06585	0.00341	-0.00234	-0.00008	-0.00073
53.25	0.06542	0.00338	-0.00245	-0.00008	-0.00076
53.75	0.06518	0.00325	-0.00255	-0.00008	-0.00081
54.25	0.06457	0.00335	-0.00267	-0.00006	-0.00086

54.75 0.06412 0.00318 -0.00269 -0.00007 -0.00091 55.25 0.06362 0.00292 -0.00264 -0.00008 -0.00094 55.75 0.06339 0.00252 -0.00253 -0.00010 -0.00096 56.25 0.06289 0.00231 -0.00010 -0.00097 57.75 0.06118 0.00231 -0.00233 -0.00009 -0.00095 57.75 0.06012 0.00242 -0.00245 -0.00007 -0.00095 58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00095 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00099 59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 60.25 0.05540 0.00243 -0.00009 -0.00106 60.25 0.05449 0.00254 -0.00228 -0.00013 -0.00103 61.25 0.05449 0.00254 -0.0023 -0.00010 -0.00103 62.24 0.05255						
55.75 0.06339 0.00252 -0.00253 -0.00008 -0.00096 56.25 0.06289 0.00231 -0.00241 -0.00010 -0.00096 56.75 0.06222 0.00228 -0.00231 -0.00009 -0.00097 57.25 0.06118 0.00231 -0.00233 -0.00007 -0.00095 57.75 0.06012 0.00236 -0.00251 -0.00007 -0.00095 58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00099 58.25 0.05806 0.00227 -0.00250 -0.00008 -0.00099 59.25 0.05806 0.00244 -0.00250 -0.00008 -0.00104 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00238 -0.00012 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00103	54.75	0.06412	0.00318	-0.00269	-0.00007	-0.00091
56.25 0.06289 0.00231 -0.00241 -0.00010 -0.00096 56.75 0.06222 0.00228 -0.00231 -0.00010 -0.00097 57.25 0.06118 0.00231 -0.00233 -0.00009 -0.00095 57.75 0.06012 0.00242 -0.00245 -0.00007 -0.00094 58.25 0.05932 0.00236 -0.00251 -0.00008 -0.00099 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00104 59.75 0.055806 0.00248 -0.00243 -0.00008 -0.00104 59.75 0.055640 0.00253 -0.00230 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00237 -0.00010 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00103	55.25	0.06362	0.00292	-0.00264	-0.00008	-0.00094
56.75 0.06222 0.00228 -0.00231 -0.00010 -0.00097 57.25 0.06118 0.00231 -0.00233 -0.00009 -0.00095 57.75 0.06012 0.00242 -0.00245 -0.00007 -0.00094 58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00095 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00104 59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 59.75 0.05726 0.00248 -0.00233 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 61.25 0.05449 0.00253 -0.00237 -0.00012 -0.00103 61.25 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00233 -0.00010 -0.00105 62.25 0.05116 0.00264 -0.00233 -0.00010 -0.00105	55.75	0.06339	0.00252	-0.00253	-0.00008	-0.00096
57.25 0.06118 0.00231 -0.00233 -0.00009 -0.00095 57.75 0.06012 0.00242 -0.00245 -0.00007 -0.00094 58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00095 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00104 59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 59.75 0.05726 0.00248 -0.00243 -0.00009 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00228 -0.00011 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00238 -0.00010 -0.00103 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00105 62.25 0.05116 0.00264 -0.00231 -0.00010 -0.00109	56.25	0.06289	0.00231	-0.00241	-0.00010	-0.00096
57.75 0.06012 0.00242 -0.00245 -0.00007 -0.00094 58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00095 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00099 59.25 0.05806 0.00240 -0.00250 -0.00009 -0.00104 59.75 0.05726 0.00248 -0.00230 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00012 -0.00103 61.25 0.05449 0.00254 -0.00228 -0.00010 -0.00103 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00231 -0.00010 -0.00105 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00107	56.75	0.06222	0.00228	-0.00231	-0.00010	-0.00097
58.25 0.05932 0.00236 -0.00251 -0.00007 -0.00095 58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00099 59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 59.75 0.05726 0.00248 -0.00230 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00228 -0.00012 -0.00103 60.75 0.05542 0.00254 -0.00228 -0.00010 -0.00103 61.25 0.05449 0.00256 -0.00238 -0.00010 -0.00103 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00231 -0.00010 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104	57.25	0.06118	0.00231	-0.00233	-0.00009	-0.00095
58.75 0.05881 0.00227 -0.00250 -0.00008 -0.00099 59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 59.75 0.05726 0.00248 -0.00230 -0.00013 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00012 -0.00103 60.75 0.05542 0.00254 -0.00228 -0.00010 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 65.74 0.0468 0.00313 -0.00216 -0.00015 -0.00108 <	57.75	0.06012	0.00242	-0.00245	-0.00007	-0.00094
59.25 0.05806 0.00240 -0.00250 -0.00008 -0.00104 59.75 0.05726 0.00248 -0.00243 -0.00009 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00228 -0.00012 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00105 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 65.74 0.04668 0.00313 -0.00216 -0.00015 -0.00108	58.25	0.05932	0.00236	-0.00251	-0.00007	-0.00095
59.75 0.05726 0.00248 -0.00243 -0.00009 -0.00106 60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00228 -0.00012 -0.00103 61.25 0.05449 0.00256 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00105 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.24 0.04668 0.00313 -0.00220 -0.00015 -0.00108	58.75	0.05881	0.00227	-0.00250	-0.00008	-0.00099
60.25 0.05640 0.00253 -0.00230 -0.00013 -0.00106 60.75 0.05542 0.00254 -0.00228 -0.00012 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00246 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00225 -0.00019 -0.00113	59.25	0.05806	0.00240	-0.00250	-0.00008	-0.00104
60.75 0.05542 0.00254 -0.00228 -0.00012 -0.00103 61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00110 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.24 0.04668 0.00313 -0.00205 -0.00019 -0.00118 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00116 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00117	59.75	0.05726	0.00248	-0.00243	-0.00009	-0.00106
61.25 0.05449 0.00253 -0.00237 -0.00010 -0.00102 61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117	60.25	0.05640	0.00253	-0.00230	-0.00013	-0.00106
61.75 0.05362 0.00256 -0.00238 -0.00010 -0.00103 62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04440 0.00268 -0.00184 -0.00017 -0.00117 67.75 0.04424 0.00230 -0.00186 -0.00017 -0.00118	60.75	0.05542	0.00254	-0.00228	-0.00012	-0.00103
62.24 0.05255 0.00254 -0.00234 -0.00010 -0.00105 62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04399 0.00209 -0.0186 -0.00017 -0.00119 <	61.25	0.05449	0.00253	-0.00237	-0.00010	-0.00102
62.75 0.05212 0.00246 -0.00233 -0.00010 -0.00110 63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00186 -0.00017 -0.00118 68.25 0.04308 0.00222 -0.00190 -0.00017 -0.00120	61.75	0.05362	0.00256	-0.00238	-0.00010	-0.00103
63.25 0.05116 0.00264 -0.00231 -0.00009 -0.00109 63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00020 -0.00120	62.24	0.05255	0.00254	-0.00234	-0.00010	-0.00105
63.75 0.05038 0.00296 -0.00223 -0.00012 -0.00107 64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04399 0.00230 -0.00180 -0.00015 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00021 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00021 -0.00121	62.75	0.05212	0.00246	-0.00233	-0.00010	-0.00110
64.25 0.04921 0.00333 -0.00218 -0.00013 -0.00104 64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00199 -0.00021 -0.00122	63.25	0.05116	0.00264	-0.00231	-0.00009	-0.00109
64.75 0.04837 0.00342 -0.00220 -0.00014 -0.00104 65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00021 -0.00122 70.75 0.03938 0.00251 -0.00195 -0.00023 -0.00125	63.75	0.05038	0.00296	-0.00223	-0.00012	-0.00107
65.25 0.04749 0.00334 -0.00216 -0.00015 -0.00108 65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00027 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125	64.25	0.04921	0.00333	-0.00218	-0.00013	-0.00104
65.74 0.04668 0.00313 -0.00205 -0.00019 -0.00113 66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126	64.75	0.04837	0.00342	-0.00220	-0.00014	-0.00104
66.25 0.04582 0.00302 -0.00201 -0.00019 -0.00116 66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00021 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127 <td>65.25</td> <td>0.04749</td> <td>0.00334</td> <td>-0.00216</td> <td>-0.00015</td> <td>-0.00108</td>	65.25	0.04749	0.00334	-0.00216	-0.00015	-0.00108
66.75 0.04508 0.00291 -0.00200 -0.00017 -0.00117 67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00126 72.25 0.03653 0.00289 -0.00198 -0.00025 -0.00127	65.74	0.04668	0.00313	-0.00205	-0.00019	-0.00113
67.25 0.04440 0.00268 -0.00184 -0.00018 -0.00117 67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	66.25	0.04582	0.00302	-0.00201	-0.00019	-0.00116
67.75 0.04424 0.00230 -0.00180 -0.00017 -0.00118 68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	66.75	0.04508	0.00291	-0.00200	-0.00017	-0.00117
68.25 0.04399 0.00209 -0.00186 -0.00015 -0.00119 68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	67.25	0.04440	0.00268	-0.00184	-0.00018	-0.00117
68.75 0.04308 0.00222 -0.00190 -0.00017 -0.00120 69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	67.75	0.04424	0.00230	-0.00180	-0.00017	-0.00118
69.25 0.04204 0.00263 -0.00191 -0.00020 -0.00120 69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	68.25	0.04399	0.00209	-0.00186	-0.00015	-0.00119
69.75 0.04139 0.00258 -0.00190 -0.00022 -0.00121 70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	68.75	0.04308	0.00222	-0.00190	-0.00017	-0.00120
70.25 0.04053 0.00251 -0.00199 -0.00021 -0.00122 70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	69.25	0.04204	0.00263	-0.00191	-0.00020	-0.00120
70.75 0.03938 0.00261 -0.00195 -0.00023 -0.00125 71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	69.75	0.04139	0.00258	-0.00190	-0.00022	-0.00121
71.25 0.03806 0.00275 -0.00195 -0.00024 -0.00125 71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	70.25	0.04053	0.00251	-0.00199	-0.00021	-0.00122
71.75 0.03723 0.00289 -0.00198 -0.00024 -0.00126 72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	70.75	0.03938	0.00261	-0.00195	-0.00023	-0.00125
72.25 0.03653 0.00294 -0.00204 -0.00025 -0.00127	71.25	0.03806	0.00275	-0.00195	-0.00024	-0.00125
	71.75	0.03723	0.00289	-0.00198	-0.00024	-0.00126
72.75 0.03605 0.00288 -0.00203 -0.00028 -0.00126	72.25	0.03653	0.00294	-0.00204	-0.00025	-0.00127
	72.75	0.03605	0.00288	-0.00203	-0.00028	-0.00126

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73.25	0.03614	0.00246	-0.00207	-0.00028	-0.00129
73.75	0.03525	0.00227	-0.00217	-0.00025	-0.00131
74.25	0.03371	0.00242	-0.00216	-0.00026	-0.00132
74.75	0.03223	0.00254	-0.00217	-0.00026	-0.00131
75.25	0.03077	0.00266	-0.00218	-0.00026	-0.00127
75.75	0.02977	0.00267	-0.00223	-0.00024	-0.00124
76.25	0.02869	0.00278	-0.00228	-0.00024	-0.00117
76.75	0.02816	0.00274	-0.00238	-0.00020	-0.00114
77.25	0.02703	0.00275	-0.00236	-0.00021	-0.00110
77.75	0.02593	0.00289	-0.00245	-0.00019	-0.00106
78.25	0.02404	0.00309	-0.00247	-0.00020	-0.00097
78.75	0.02183	0.00363	-0.00258	-0.00018	-0.00085
79.25	0.01966	0.00417	-0.00259	-0.00018	-0.00072
79.75	0.01785	0.00460	-0.00258	-0.00017	-0.00062
80.25	0.01658	0.00494	-0.00261	-0.00017	-0.00055
80.75	0.01583	0.00494	-0.00260	-0.00017	-0.00050
81.25	0.01531	0.00471	-0.00262	-0.00016	-0.00045
81.75	0.01497	0.00411	-0.00253	-0.00018	-0.00040
82.25	0.01419	0.00393	-0.00250	-0.00019	-0.00036
82.75	0.01320	0.00401	-0.00250	-0.00019	-0.00033
83.25	0.01223	0.00412	-0.00247	-0.00019	-0.00033
83.75	0.01149	0.00406	-0.00246	-0.00020	-0.00032
84.25	0.01012	0.00417	-0.00251	-0.00020	-0.00025
84.75	0.00863	0.00432	-0.00247	-0.00021	-0.00020
85.25	0.00719	0.00461	-0.00236	-0.00023	-0.00015
85.75	0.00668	0.00474	-0.00231	-0.00023	-0.00012
86.25	0.00620	0.00447	-0.00222	-0.00024	-0.00012
86.75	0.00518	0.00434	-0.00222	-0.00023	-0.00012
87.25	0.00273	0.00504	-0.00222	-0.00024	-0.00005
87.76	0.00192	0.00499	-0.00208	-0.00025	0.00004
88.26	0.00289	0.00480	-0.00207	-0.00027	0.00000
88.76	0.00164	0.00516	-0.00204	-0.00027	0.00006
89.27	0.00264	0.00422	-0.00192	-0.00026	0.00007
89.71	0.00134	0.00457	-0.00174	-0.00034	0.00017

Table 46. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=15^\circ,\ \dot{\varphi}=7$ °/sec

DYNAMIC ROLL $\phi = 0^{\circ}-90^{\circ}$						
φ (°)	C_N	C_{M}	C_{S}	C_{YM}	C_{RM}	
0.22	0.11044	0.00665	-0.00292	0.00030	0.00029	
0.73	0.10833	0.00684	-0.00253	0.00027	0.00026	
1.24	0.10785	0.00670	-0.00219	0.00027	0.00017	
1.74	0.10874	0.00636	-0.00211	0.00030	0.00003	
2.25	0.10890	0.00650	-0.00201	0.00031	0.00001	
2.74	0.10886	0.00697	-0.00204	0.00031	0.00001	
3.25	0.10923	0.00696	-0.00217	0.00032	-0.00004	
3.75	0.10934	0.00664	-0.00221	0.00034	-0.00009	
4.25	0.10945	0.00631	-0.00218	0.00034	-0.00010	
4.75	0.10897	0.00656	-0.00211	0.00033	-0.00013	
5.25	0.10906	0.00674	-0.00211	0.00031	-0.00016	
5.74	0.10948	0.00656	-0.00229	0.00032	-0.00015	
6.25	0.10914	0.00655	-0.00244	0.00033	-0.00017	
6.75	0.10901	0.00662	-0.00250	0.00034	-0.00021	
7.25	0.10889	0.00643	-0.00249	0.00035	-0.00022	
7.75	0.10911	0.00632	-0.00243	0.00034	-0.00022	
8.25	0.10906	0.00644	-0.00239	0.00035	-0.00023	
8.75	0.10924	0.00655	-0.00246	0.00036	-0.00023	
9.25	0.10875	0.00674	-0.00255	0.00036	-0.00025	
9.75	0.10876	0.00668	-0.00259	0.00035	-0.00028	
10.25	0.10908	0.00639	-0.00260	0.00035	-0.00030	
10.75	0.10904	0.00630	-0.00263	0.00035	-0.00034	
11.25	0.10884	0.00629	-0.00265	0.00035	-0.00036	
11.75	0.10886	0.00620	-0.00269	0.00037	-0.00039	
12.25	0.10888	0.00612	-0.00273	0.00038	-0.00038	
12.75	0.10847	0.00628	-0.00276	0.00037	-0.00034	
13.25	0.10820	0.00639	-0.00280	0.00036	-0.00030	
13.75	0.10761	0.00663	-0.00288	0.00036	-0.00028	
14.25	0.10756	0.00651	-0.00299	0.00037	-0.00029	
14.75	0.10780	0.00624	-0.00309	0.00038	-0.00031	
15.25	0.10777	0.00600	-0.00319	0.00038	-0.00033	
15.75	0.10735	0.00595	-0.00326	0.00038	-0.00032	
16.26	0.10685	0.00626	-0.00332	0.00039	-0.00031	
16.75	0.10613	0.00652	-0.00332	0.00038	-0.00032	
17.25	0.10568	0.00652	-0.00329	0.00038	-0.00035	

17.75 0.10574 0.00654 -0.00328 0.00039 -0.00036 18.25 0.10607 0.00638 -0.00329 0.00041 -0.00034 18.75 0.10623 0.00610 -0.00332 0.00041 -0.00029 19.25 0.10608 0.00588 -0.00335 0.00041 -0.00024 20.75 0.10547 0.00605 -0.00344 0.00040 -0.00024 20.75 0.10322 0.00668 -0.00364 0.00038 -0.00027 21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00381 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 24.25 0.10243 0.00557 -0.00384 0.00043 -0.00029						
18.75 0.10623 0.00610 -0.00332 0.00041 -0.00029 19.25 0.10608 0.00588 -0.00335 0.00041 -0.00026 19.75 0.10547 0.00605 -0.00344 0.00040 -0.00024 20.25 0.10447 0.00637 -0.00355 0.00038 -0.00024 20.75 0.10322 0.00668 -0.00364 0.00038 -0.00027 21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00381 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00022	17.75	0.10574	0.00654	-0.00328	0.00039	-0.00036
19.25 0.10608 0.00588 -0.00335 0.00041 -0.00026 19.75 0.10547 0.00605 -0.00344 0.00040 -0.00024 20.25 0.10447 0.00637 -0.00355 0.00038 -0.00027 20.75 0.10322 0.00668 -0.00372 0.00040 -0.00027 21.25 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00380 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00025 23.25 0.10275 0.00611 -0.00380 0.00043 -0.00026 23.75 0.10299 0.00587 -0.00381 0.00043 -0.00029 24.25 0.10243 0.00567 -0.00381 0.00045 -0.00029 24.25 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00022	18.25	0.10607	0.00638	-0.00329	0.00041	-0.00034
19.75 0.10547 0.00605 -0.00344 0.00040 -0.00024 20.25 0.10447 0.00637 -0.00355 0.00038 -0.00024 20.75 0.10322 0.00668 -0.00364 0.00038 -0.00027 21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00025 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00417 0.00048 -0.00022	18.75	0.10623	0.00610	-0.00332	0.00041	-0.00029
20.25 0.10447 0.00637 -0.00355 0.00038 -0.00024 20.75 0.10322 0.00668 -0.00364 0.00038 -0.00027 21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00227 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.75 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10130 0.00667 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00044 -0.00022	19.25	0.10608	0.00588	-0.00335	0.00041	-0.00026
20.75 0.10322 0.00668 -0.00364 0.00038 -0.00027 21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.0022 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00427 0.00047 -0.00028 26.75 0.09984 0.00655 -0.00440 0.00048 -0.00025	19.75	0.10547	0.00605	-0.00344	0.00040	-0.00024
21.25 0.10282 0.00654 -0.00372 0.00040 -0.00029 21.75 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 27.25 0.09929 0.00635 -0.00440 0.00049 -0.00022	20.25	0.10447	0.00637	-0.00355	0.00038	-0.00024
21.75 0.10287 0.00643 -0.00380 0.00041 -0.00027 22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00028 26.25 0.10056 0.00649 -0.00447 0.00047 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09990 0.0053 -0.00444 0.00049 -0.00019	20.75	0.10322	0.00668	-0.00364	0.00038	-0.00027
22.25 0.10293 0.00624 -0.00381 0.00042 -0.00025 22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09993 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019	21.25	0.10282	0.00654	-0.00372	0.00040	-0.00029
22.75 0.10275 0.00611 -0.00380 0.00042 -0.00026 23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00591 -0.00444 0.00049 -0.00021 28.25 0.09998 0.0058 -0.00447 0.00059 -0.00022	21.75	0.10287	0.00643	-0.00380	0.00041	-0.00027
23.25 0.10316 0.00582 -0.00381 0.00043 -0.00029 23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00047 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09908 0.00591 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022	22.25	0.10293	0.00624	-0.00381	0.00042	-0.00025
23.75 0.10299 0.00557 -0.00384 0.00045 -0.00029 24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09908 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09998 0.00588 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00032	22.75	0.10275	0.00611	-0.00380	0.00042	-0.00026
24.25 0.10243 0.00567 -0.00393 0.00047 -0.00027 24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00028 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032	23.25	0.10316	0.00582	-0.00381	0.00043	-0.00029
24.75 0.10208 0.00585 -0.00405 0.00048 -0.00026 25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030	23.75	0.10299	0.00557	-0.00384	0.00045	-0.00029
25.25 0.10194 0.00607 -0.00417 0.00048 -0.00026 25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 31.75 0.09886 0.00578 -0.00488 0.00055 -0.00030	24.25	0.10243	0.00567	-0.00393	0.00047	-0.00027
25.75 0.10130 0.00626 -0.00427 0.00047 -0.00027 26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00032	24.75	0.10208	0.00585	-0.00405	0.00048	-0.00026
26.25 0.10056 0.00649 -0.00434 0.00046 -0.00028 26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.75 0.09833 0.00567 -0.00488 0.00055 -0.00032 32.25 0.09794 0.00559 -0.00478 0.00056 -0.00031	25.25	0.10194	0.00607	-0.00417	0.00048	-0.00026
26.75 0.09984 0.00661 -0.00440 0.00047 -0.00028 27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.75 0.09886 0.00578 -0.00488 0.00055 -0.00039 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00559 -0.00478 0.00057 -0.00031	25.75	0.10130	0.00626	-0.00427	0.00047	-0.00027
27.25 0.09929 0.00635 -0.00443 0.00048 -0.00025 27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00478 0.00056 -0.00031 32.75 0.09723 0.00559 -0.00478 0.00057 -0.00031	26.25	0.10056	0.00649	-0.00434	0.00046	-0.00028
27.75 0.09903 0.00593 -0.00444 0.00049 -0.00021 28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00478 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00567 -0.00477 0.00058 -0.00031	26.75	0.09984	0.00661	-0.00440	0.00047	-0.00028
28.25 0.09908 0.00591 -0.00442 0.00049 -0.00019 28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031	27.25	0.09929	0.00635	-0.00443	0.00048	-0.00025
28.75 0.09969 0.00588 -0.00447 0.00050 -0.00022 29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00567 -0.00475 0.00057 -0.00031 33.75 0.09733 0.00557 -0.00477 0.00058 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00060 -0.00034	27.75	0.09903	0.00593	-0.00444	0.00049	-0.00021
29.25 0.09994 0.00605 -0.00458 0.00050 -0.00028 29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00031 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00060 -0.00034	28.25	0.09908	0.00591	-0.00442	0.00049	-0.00019
29.75 0.10005 0.00613 -0.00469 0.00051 -0.00032 30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	28.75	0.09969	0.00588	-0.00447	0.00050	-0.00022
30.25 0.09996 0.00612 -0.00476 0.00052 -0.00032 30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00060 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	29.25	0.09994	0.00605	-0.00458	0.00050	-0.00028
30.75 0.09941 0.00599 -0.00485 0.00054 -0.00030 31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	29.75	0.10005	0.00613	-0.00469	0.00051	-0.00032
31.25 0.09886 0.00578 -0.00488 0.00055 -0.00030 31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	30.25	0.09996	0.00612	-0.00476	0.00052	-0.00032
31.75 0.09833 0.00567 -0.00484 0.00055 -0.00029 32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	30.75	0.09941	0.00599	-0.00485	0.00054	-0.00030
32.25 0.09794 0.00559 -0.00482 0.00056 -0.00031 32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	31.25	0.09886	0.00578	-0.00488	0.00055	-0.00030
32.75 0.09757 0.00551 -0.00478 0.00057 -0.00032 33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	31.75	0.09833	0.00567	-0.00484	0.00055	-0.00029
33.25 0.09723 0.00559 -0.00475 0.00057 -0.00031 33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	32.25	0.09794	0.00559	-0.00482	0.00056	-0.00031
33.75 0.09725 0.00567 -0.00477 0.00058 -0.00030 34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	32.75	0.09757	0.00551	-0.00478	0.00057	-0.00032
34.25 0.09733 0.00557 -0.00485 0.00060 -0.00031 34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	33.25	0.09723	0.00559	-0.00475	0.00057	-0.00031
34.75 0.09753 0.00538 -0.00491 0.00061 -0.00034 35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	33.75	0.09725	0.00567	-0.00477	0.00058	-0.00030
35.25 0.09711 0.00562 -0.00501 0.00060 -0.00034	34.25	0.09733	0.00557	-0.00485	0.00060	-0.00031
	34.75	0.09753	0.00538	-0.00491	0.00061	-0.00034
35.75 0.09687 0.00571 -0.00507 0.00060 -0.00036	35.25	0.09711	0.00562	-0.00501	0.00060	-0.00034
	35.75	0.09687	0.00571	-0.00507	0.00060	-0.00036

36.75 0.09494 0.00586 -0.00508 0.00060 -0 37.25 0.09407 0.00554 -0.00500 0.00062 -0 37.75 0.09298 0.00539 -0.00494 0.00064 -0 38.25 0.09211 0.00535 -0.00491 0.00065 -0	0.00035 0.00035 0.00038 0.00038 0.00038
37.25 0.09407 0.00554 -0.00500 0.00062 -0 37.75 0.09298 0.00539 -0.00494 0.00064 -0 38.25 0.09211 0.00535 -0.00491 0.00065 -0	0.00038
37.75 0.09298 0.00539 -0.00494 0.00064 -0 38.25 0.09211 0.00535 -0.00491 0.00065 -0	0.00038
38.25 0.09211 0.00535 -0.00491 0.00065 -0	0.00038
38.75 0.09113 0.00566 -0.00487 0.00065 -0	00038
39.25 0.09116 0.00567 -0.00486 0.00064 -0	0.00038
39.75 0.09154 0.00554 -0.00487 0.00063 -0	.00039
40.25 0.09136 0.00544 -0.00493 0.00065 -0	0.00042
40.75 0.09163 0.00532 -0.00495 0.00066 -0	0.00048
41.25 0.09131 0.00546 -0.00494 0.00067 -0	0.00052
41.75 0.09045 0.00575 -0.00496 0.00069 -0	0.00051
42.25 0.08962 0.00576 -0.00493 0.00069 -0	0.00048
42.75 0.08854 0.00583 -0.00491 0.00070 -0	0.00044
43.25 0.08777 0.00576 -0.00487 0.00070 -0	0.00044
43.75 0.08756 0.00547 -0.00480 0.00070 -0	0.00048
44.25 0.08751 0.00527 -0.00475 0.00070 -0	0.00051
44.75 0.08743 0.00528 -0.00475 0.00070 -0	0.00053
45.24 0.08754 0.00537 -0.00482 0.00071 -0	0.00055
45.75 0.08744 0.00534 -0.00490 0.00072 -0	0.00054
46.25 0.08709 0.00533 -0.00501 0.00072 -0	0.00054
46.75 0.08674 0.00526 -0.00506 0.00073 -0	0.00056
47.25 0.08543 0.00535 -0.00507 0.00073 -0	0.00056
47.75 0.08412 0.00531 -0.00510 0.00073 -0	0.00055
48.25 0.08310 0.00517 -0.00510 0.00073 -0	0.00053
48.75 0.08263 0.00495 -0.00509 0.00072 -0	0.00050
49.25 0.08228 0.00478 -0.00514 0.00073 -0	.00048
49.75 0.08210 0.00461 -0.00517 0.00073 -0	0.00051
50.25 0.08182 0.00456 -0.00527 0.00075 -0	0.00054
50.75 0.08124 0.00440 -0.00536 0.00077 -0	0.00058
51.25 0.08037 0.00419 -0.00540 0.00077 -0	0.00059
51.75 0.07930 0.00436 -0.00546 0.00076 -0	0.00060
52.25 0.07832 0.00439 -0.00550 0.00075 -0	0.00063
52.75 0.07762 0.00449 -0.00556 0.00075 -0	.00069
53.25 0.07715 0.00441 -0.00554 0.00077 -0	.00076
53.75 0.07660 0.00432 -0.00548 0.00079 -0	.00079
54.25 0.07609 0.00417 -0.00539 0.00079 -0	.00081

55.25 0.07530 0.00395 -0.00533 0.00074 -0. 55.75 0.07464 0.00396 -0.00534 0.00072 -0. 56.25 0.07413 0.00390 -0.00537 0.00072 -0. 56.75 0.07334 0.00362 -0.00538 0.00074 -0.	00079 00079 00081 00087
55.75 0.07464 0.00396 -0.00534 0.00072 -0. 56.25 0.07413 0.00390 -0.00537 0.00072 -0. 56.75 0.07334 0.00362 -0.00538 0.00074 -0.	00081
56.25 0.07413 0.00390 -0.00537 0.00072 -0. 56.75 0.07334 0.00362 -0.00538 0.00074 -0.	
56.75 0.07334 0.00362 -0.00538 0.00074 -0.	00087
57.25 0.07248 0.00336 -0.00541 0.00076 -0.	.00090
	00090
57.75 0.07145 0.00305 -0.00542 0.00078 -0.	.00089
58.25 0.07034 0.00304 -0.00539 0.00077 -0.	.00089
58.75 0.06929 0.00324 -0.00536 0.00076 -0.	00091
59.25 0.06840 0.00329 -0.00528 0.00074 -0.	00096
59.75 0.06785 0.00329 -0.00520 0.00073 -0.	00101
60.25 0.06744 0.00324 -0.00517 0.00073 -0.	00105
60.75 0.06652 0.00324 -0.00516 0.00074 -0.	00106
61.25 0.06551 0.00338 -0.00522 0.00074 -0.	00108
61.75 0.06418 0.00351 -0.00527 0.00074 -0.	00107
62.25 0.06287 0.00367 -0.00528 0.00073 -0.	00105
62.75 0.06163 0.00348 -0.00521 0.00073 -0.	00100
63.25 0.06033 0.00337 -0.00512 0.00071 -0.	00096
63.75 0.05953 0.00315 -0.00503 0.00070 -0.	00094
64.25 0.05859 0.00307 -0.00496 0.00069 -0.	.00095
64.75 0.05804 0.00312 -0.00488 0.00068 -0.	00101
65.25 0.05728 0.00326 -0.00477 0.00066 -0.	00108
65.75 0.05682 0.00311 -0.00466 0.00066 -0.	00115
66.25 0.05605 0.00288 -0.00457 0.00065 -0.	00117
66.75 0.05513 0.00257 -0.00455 0.00065 -0.	00116
67.25 0.05420 0.00228 -0.00457 0.00065 -0.	00115
67.75 0.05270 0.00239 -0.00466 0.00065 -0.	00113
68.25 0.05115 0.00250 -0.00474 0.00065 -0.	00113
68.75 0.04965 0.00276 -0.00477 0.00063 -0.	00114
69.25 0.04899 0.00280 -0.00477 0.00062 -0.	00117
69.75 0.04875 0.00271 -0.00475 0.00061 -0.	.00123
70.25 0.04874 0.00273 -0.00476 0.00060 -0.	00131
70.75 0.04898 0.00259 -0.00473 0.00058 -0.	00140
71.25 0.04884 0.00246 -0.00476 0.00057 -0.	00148
71.75 0.04804 0.00246 -0.00480 0.00056 -0.	00151
72.25 0.04667 0.00248 -0.00486 0.00055 -0.	00149
72.75 0.04485 0.00261 -0.00492 0.00056 -0.	00145

				I	1
73.25	0.04350	0.00238	-0.00496	0.00056	-0.00140
73.75	0.04280	0.00205	-0.00496	0.00057	-0.00139
74.25	0.04239	0.00167	-0.00493	0.00057	-0.00140
74.75	0.04205	0.00150	-0.00493	0.00057	-0.00143
75.25	0.04133	0.00165	-0.00494	0.00056	-0.00144
75.75	0.04065	0.00185	-0.00494	0.00054	-0.00144
76.25	0.03933	0.00204	-0.00490	0.00054	-0.00140
76.75	0.03813	0.00214	-0.00489	0.00053	-0.00138
77.25	0.03579	0.00258	-0.00493	0.00054	-0.00134
77.75	0.03366	0.00282	-0.00505	0.00056	-0.00129
78.25	0.03181	0.00281	-0.00515	0.00058	-0.00121
78.75	0.03116	0.00229	-0.00526	0.00060	-0.00111
79.25	0.03016	0.00211	-0.00532	0.00062	-0.00101
79.75	0.02891	0.00234	-0.00528	0.00061	-0.00093
80.25	0.02770	0.00257	-0.00516	0.00059	-0.00087
80.75	0.02637	0.00278	-0.00503	0.00057	-0.00080
81.25	0.02445	0.00302	-0.00499	0.00057	-0.00070
81.75	0.02170	0.00336	-0.00507	0.00059	-0.00057
82.25	0.01951	0.00340	-0.00522	0.00060	-0.00042
82.75	0.01755	0.00345	-0.00528	0.00060	-0.00031
83.25	0.01585	0.00367	-0.00520	0.00058	-0.00028
83.75	0.01451	0.00403	-0.00508	0.00056	-0.00027
84.25	0.01376	0.00416	-0.00502	0.00055	-0.00027
84.75	0.01282	0.00419	-0.00503	0.00055	-0.00028
85.25	0.01150	0.00426	-0.00505	0.00054	-0.00024
85.75	0.01010	0.00426	-0.00501	0.00053	-0.00016
86.25	0.00922	0.00401	-0.00487	0.00052	-0.00008
86.75	0.00846	0.00388	-0.00484	0.00052	-0.00003
87.25	0.00731	0.00401	-0.00488	0.00052	-0.00003
87.75	0.00569	0.00429	-0.00488	0.00051	0.00001
88.25	0.00462	0.00412	-0.00476	0.00050	0.00008
88.76	0.00422	0.00371	-0.00467	0.00050	0.00012
89.27	0.00271	0.00416	-0.00471	0.00050	0.00014
89.70	0.00225	0.00390	-0.00448	0.00048	0.00021

Table 47. Aerodynamic Coefficients, $U_{\infty}=10$ [in/sec], $Re=2.15x10^4$, $\alpha=20^\circ,\ \dot{\varphi}=7$ °/sec

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